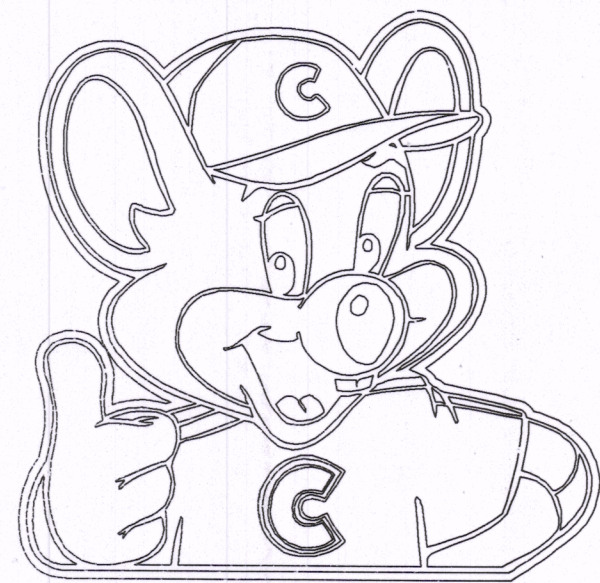


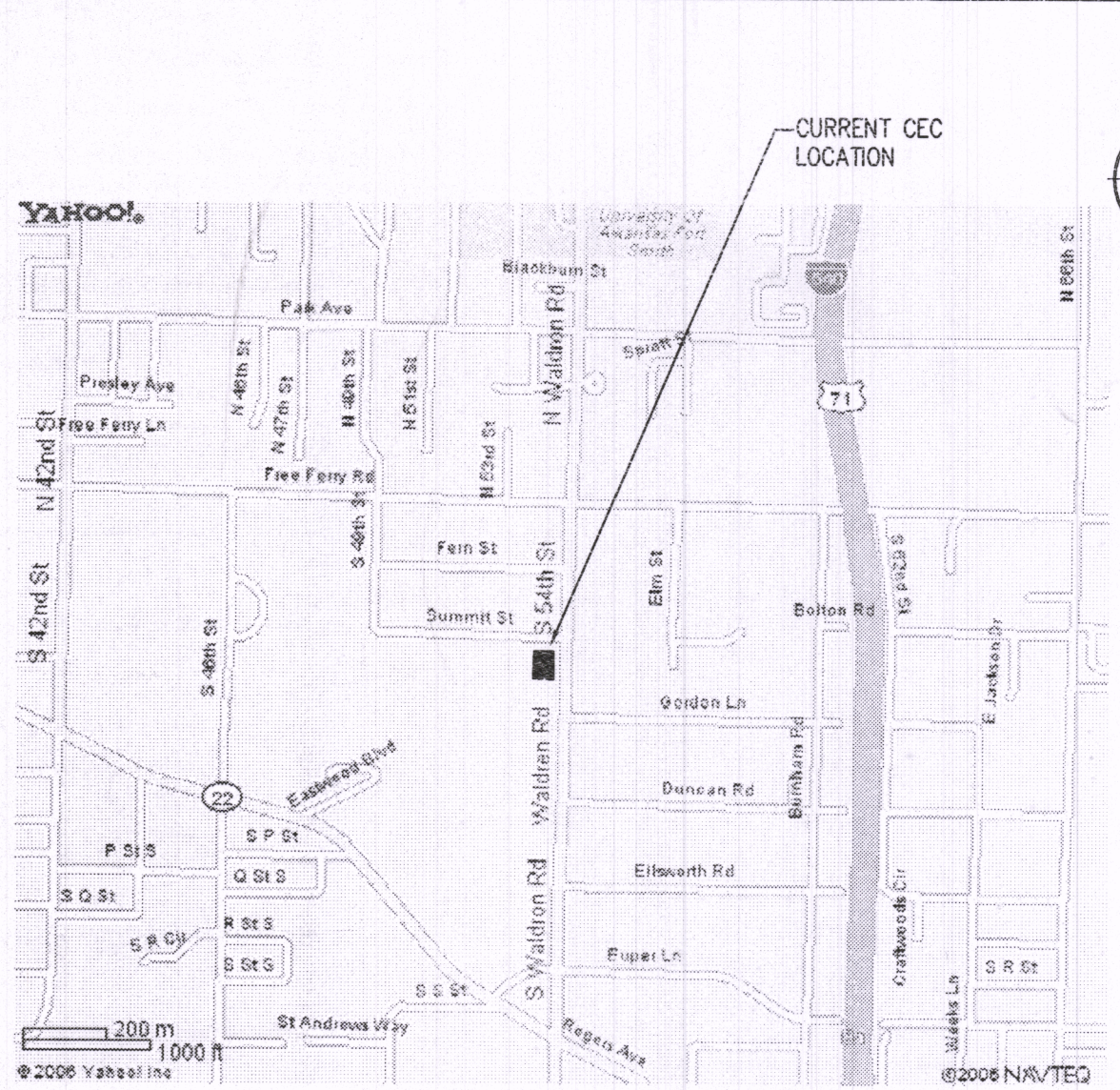


FORT SMITH MUNICIPAL CODE SECTION 27-361(I) AND 27-363(A): ALL SIGNS PERMANENT, PORTABLE, BANNERS, ETC. REQUIRES SEPARATE PERMITS. IF THE LOCATION OF ANY FUTURE SIGNS IS KNOWN, PLEASE INDICATE THE LOCATION(S) OR THE AREA THE SIGN IS PROPOSED TO BE INSTALLED, ON THE SITE PLAN. PLEASE NOTE, NO SIGNS WILL BE ALLOWED TO BE INSTALLED WITHIN OR OVER EXISTING PUBLIC EASEMENTS OR RIGHT OF WAY.

CHUCK E. CHEESE'S

UNIT # 301
MARCH 20, 2007
1200 WALDRON
FORT SMITH, AR. 72903
ISSUE PERMIT SET

SITE LOCATION MAP



AREA LOCATION MAP



PROJECT NOTES

1. THE CONTRACTOR SHALL FULLY ACQUAINT HIM/HERSELF WITH THE CONDITIONS AND REQUIREMENTS OF THE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, INCLUDING OTHER PARTS OF THE PROPOSED CONTRACT DOCUMENTS, AND FULLY UNDERSTAND THE CONDITIONS, DIFFICULTIES AND RESTRICTIONS COMPLETELY BEFORE EXECUTING THE WORK. IT IS UNDERSTOOD THAT OMISSIONS FROM THE BID, DUE TO FAILURE OF THE CONTRACTOR TO FULLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DOCUMENTS, WILL NOT ENTITLE HIM TO ADDITIONAL CONSIDERATION AND/OR COMPENSATION. C.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO COMMENCING THE WORK.
2. SHOULD THE CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM, THE CONSTRUCTION DOCUMENTS, OR BE IN DOUBT AS TO THE MEANING AND INTENTION OF ANY ITEM OR REQUIREMENT, HE SHALL NOTIFY THE OWNER AT ONCE.
3. THE ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR TO ESTABLISH THE LIMITS AND EXTENT OF WORK TO BE PERFORMED BY A PARTICULAR TRADE. THE C.C. ALONE IS RESPONSIBLE FOR THE COMPLETION OF THE ENTIRE WORK AS DRAWN AND SPECIFIED, COMPLETE IN PLACE AND IN FUNCTIONAL OR OPERATING CONDITION. THE DIVISION OF THE SPECIFICATIONS INTO SECTIONS AND PARAGRAPHS AND ORGANIZATION OF THE DRAWINGS IS FOR CONVENIENCE ONLY AND NOT FOR THE PURPOSE OF LIMITING OR RESTRAINING PERFORMANCE OF ANY PORTION OF THE WORK TO ANY PARTICULAR TRADE.
4. ALL WORK PERFORMED SHALL COMPLY WITH THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, INCLUDING THESE GENERAL NOTES. THE C.C. SHALL COORDINATE THE INTENT OF THE GENERAL NOTES WITH ALL THE TRADES.
5. NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
6. ANY STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS (IF REQUIRED) ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEERS' DRAWINGS THAT WOULD CAUSE AN IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH

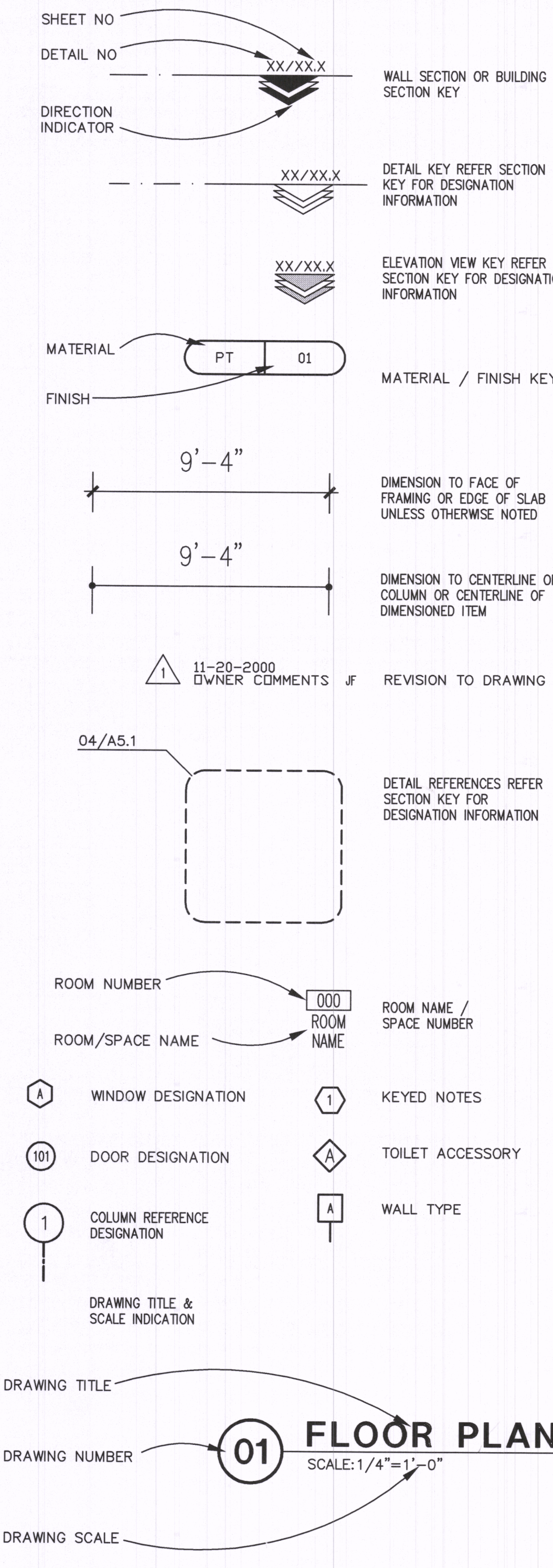
- THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.
- SPECIFICATIONS ARE CONTAINED IN THESE CONTRACT DOCUMENTS.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SAME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- WHERE A TYPICAL CONDITION IS DETAILED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
- IF THE RESTAURANT IS SCHEDULED TO REMAIN OPEN DURING ANY PORTION OF THE SCOPE OF WORK, THE CONTRACTOR IS RESPONSIBLE TO KEEP THE AREAS OF WORK CLEAR OF DEBRIS, CLEAN AND SAFE FOR ALL WHO ENTER THE BUILDING UNTIL COMPLETION. THIS EFFORT IS TO BE INCLUDED IN THE BASE BID FOR THE WORK.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTHS OF ALL UTILITIES AT THE SITE. PROTECT THEM FROM DAMAGE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR IS TO PROVIDE TEMPORARY FACILITIES AS REQUIRED BY APPLICABLE CODE, LOCAL AUTHORITIES OR JURISDICTIONAL ORDINANCE.
- PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD, COMPARE THOSE MEASUREMENTS TO THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD. DRAWINGS SHALL NOT BE SCALED OFF, FOR MEASUREMENT.
- NO CHANGE IN THE SCOPE OR INTENT OF THE WORK SHALL OCCUR WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OF RECORD OR C.E.C. ENTERTAINMENT INC.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING, BARRICADING AND BRACING NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF THE BUILDING AND THE HEALTH OF THE PUBLIC AND ALL WHO ENTER THE BUILDING DURING COMPLETION OF THE SCOPE OF WORK DEFINED BY THIS ARCHITECTURAL DOCUMENTATION SET.

- ALL EMERGENCY BUILDING EXITS REQUIRED BY CODE, SHALL BE OPERABLE AND UNOBSTRUCTED DURING CONSTRUCTION PERIOD.
- ANY NEW FIRE EXTINGUISHER CABINETS TO BE PROVIDED AND INSTALLED BY C.C. IN COMPLIANCE WITH CITY AND APPLICABLE FIRE CODES.
- NEW FIRE SPRINKLERS AND FIRE ALARM SYSTEMS TO BE SUBMITTED BY GENERAL CONTRACTOR FOR SEPARATE REVIEW AND PERMIT BY FIRE DEPARTMENT.
- CONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL NEW FIRE LIFE SAFETY DEVICES WITH THE FIRE INSPECTOR AND THE OWNER REP FOR ON-SITE APPROVAL PRIOR TO INSTALLATION.
- INTERIOR FINISHES SHALL COMPLY WITH LOCAL CODES.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BLOCKING, BACKING, HANGERS, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, FIXTURES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED PLUMBING, MECHANICAL, ELECTRICAL, OR MISCELLANEOUS EQUIPMENT AND FURNISHINGS.
- EXIT PATH LIGHTING SHALL BE PROVIDED FOR HALLWAY, EXIT PASSAGEWAY AND EGRESS TO A PUBLIC WAY ANY TIME THE BUILDING IS OCCUPIED.
- EMERGENCY LIGHTING SHALL BE PROVIDED GIVING A VALUE OF ONE FOOT CANDLE MINIMUM AT FLOOR LEVEL IN ALL EXIT PATHS.
- ALL EXIT LIGHTING AND SIGNS SHALL HAVE SIX INCH HIGH LETTERS ON A CONTRASTING BACKGROUND.
- NEW EXIT SIGNS SHALL BE ILLUMINATED WITH TWO 15W LAMPS ON SEPARATE CIRCUIT. ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES WIRING SYSTEM. ONE OF EACH SHALL BE SEPARATED FROM ALL OTHER CIRCUITS IN THE BUILDING, AND INDEPENDENTLY CONTROLLED.
- WHENEVER THE BUILDING IS OCCUPIED, EXIT SIGNS SHALL BE LIGHTED SO THAT THEY ARE CLEARLY VISIBLE.

- NEW FIRE-RESISTIVE WALLS AND PARTITIONS MAY HAVE OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES IN AREA, PROVIDED THE AGGREGATE AREA OF SUCH OPENINGS IS NOT MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION AREA. "OUTLET BOXES" ON OPPOSITE SIDES OF WALLS AND PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.
- NEW INTERIOR WALL AND CEILING FINISH FLAME-SPREAD RATING SHALL BE AS REQUIRED BY LOCAL CODES.
- NEW PENETRATIONS IN WALLS, FLOORS OR ROOF REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED IN ACCORDANCE WITH LOCAL CODES.
- UTILITY OUTAGES AND SHUTDOWNS: LIMIT DISRUPTION OF UTILITY SERVICES TO HOURS THE BUILDING IS UNOCCUPIED. DO NOT DISRUPT OR SHUT DOWN LIFE SAFETY SYSTEMS, INCLUDING BUT NOT LIMITED TO FIRE SPRINKLERS AND FIRE ALARM SYSTEM, WITHOUT 7 DAYS NOTICE TO C.E.C. ENTERTAINMENT INC. AND AUTHORITIES HAVING JURISDICTION.
- ALL NEW OR RELOCATED WIRING WITHIN CONCEALED SPACES SHALL COMPLY WITH LOCAL CODES.
- ALL NEW DOOR SIZES SHOWN ARE OPENING SIZES. ALLOWANCE FOR THRESHOLDS (1/2" MIN), ETC. SHALL BE DEDUCTED. FRAMES SHALL BE REINFORCED WHERE REQUIRED FOR CLOSURES, STOPS AND HARDWARE.
- ALL NEW LEGAL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL SWING IN THE DIRECTION OF EGRESS. C.C. TO PROVIDE EXIT SIGNS AS REQUIRED BY THE BUILDING OFFICIALS. SPECIAL LOOKING DEVICES SHALL BE OF AN APPROVED TYPE.
- NEW DOORS EQUIPPED WITH PANIC HARDWARE SHALL BE OPEN-ABLE WITH A FORCE OF 15 LBS. AS APPLIED IN THE DIRECTION OF EGRESS TO THE BAR.
- NEW EGRESS DOORS SHALL BE OPEN-ABLE UNDER A TOTAL PRESSURE OF NOT GREATER THAN 15 LBS.
- ALL NEW PUBLIC LIGHT SWITCHES, FIRE ALARMS AND OTHER PUBLIC CONTROL SWITCHES SHALL BE MOUNTED AT 4'-0" ABOVE THE FINISH FLOOR.

- ALL DISCIPLINES REQUIRED TO PROVIDE SHOP DRAWINGS AND OR SAMPLES OF FINISHES, TO SUBMIT TO CONTRACTOR PRIOR TO START, WHO WILL FORWARD TO ARCHITECT AND C.E.C. ENTERTAINMENT INC. FOR COMMENTS, FOR APPROVAL OR RE-SUBMITTAL.
- ANY CHANGES TO EXISTING SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. G.C. SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.
- REPLACE WORK OR PORTIONS OF THE WORK, NOT CONFORMING TO SPECIFIED REQUIREMENTS IN THE OPINION OF C.E.C. ENTERTAINMENT INC. AND OR CARTER & BURGESS.
- ALL ITEMS REFERRED TO AS NEW, TO BE SUPPLIED AND INSTALLED (TO A FULLY FINISHED LEVEL) BY G.C. - G.C. TO PROVIDE POWER AS REQUIRED.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DAILY CLEANUP OF THE JOB SITE AND ITS SURROUNDING AREA AND REMOVE ALL CONSTRUCTION DEBRIS FOR PROPER DISPOSAL.
- G.C. IS TO FULLY INSPECT STORE LOCATION PRIOR TO SUBMITTING FINAL PRICING TO C.E.C. TO IDENTIFY AND BUDGET, REPAIR AND OR REPLACEMENT OF EXISTING DAMAGED AND SUB-STANDARD CONDITIONS, NOT LIMITED TO ALL CARPETED, FLOOR AND WALL TILE, CEILING TILES AND PAINTED AREAS, FINISHES AND FIXTURES, FURNITURE, LIGHTING, WOOD TRIM, BOTH INTERIOR AND EXTERIOR STORE CONDITIONS, UNLESS SPECIFICALLY NOTED OTHERWISE. G.C. IS TO RE-LAMP ALL LIGHTING FIXTURES THAT HAVE LAMPS, THAT ARE BURNED OUT, DAMAGED OR DISCOLORED, OR IN NEED OF REPAIR.
- G.C. SHALL:
 - COORDINATE PARKING, MATERIAL DELIVERY, AND DUMPSTER LOCATIONS W/ LANDLORD.
 - PROVIDE CERTIFICATE OF INSURANCE LISTING FEDERAL REALTY AS ADDITIONAL INSURED.
 - MAINTAIN ALL PEDESTRIAN WALKWAYS OPEN DURING CONSTRUCTION.
 - COORDINATE ANY SPRINKLER SHUT OFFS W/ LANDLORD.
- PER ARKANSAS FIRE PREVENTION CODE, VOLUME II, SECTION 108.4: WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REVIEWED CONSTRUCTION DOCUMENTS, AND ANY CHANGES MADE DURING CONSTRUCTION THAT ARE NOT IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE RESUBMITTED FOR APPROVAL AS AN AMENDED SET OF CONSTRUCTION DOCUMENTS.
- G.C. TO SUBMIT THREE (3) SETS OF SPRINKLER PLANS FOR ANY REVISIONS TO THE EXISTING SPRINKLER SYSTEM.
- WHEN THE SPRINKLER SYSTEM IS EXPANDED, THE SYSTEM SHALL BE BROUGHT UP TO CURRENT CORSS CONNECTION CONTROL REQUIREMENTS. CONTACT PAT WYSKUP AT (479) 784-2273 FOR INFORMATION.

DRAWING SYMBOLS:



LIST OF CONTACTS

OWNER	ARCHITECT
CEC ENTERTAINMENT 4441 WEST AIRPORT FREEWAY IRVING, TEXAS 75062 PH: 972.258.8507 FAX: 972.692.7188 CONTACTS: JUAN BROUSSARD	CARTER BURGESS 1420 WEST MOCKINGBIRD LN STE. 800 DALLAS, TX. 75247 PH: 214.920.8100 214.688.0618 CONTACTS: SCOTT WINDLE
PROJECT COORDINATOR	M. E. P. ENGINEER
CARTER BURGESS 1420 W. MOCKINGBIRD LAND, STE. 800 DALLAS, TEXAS 75247 PH: 214.920.8189 FAX: 214.688.0618 EMAIL: DAVID.STEFFEN@C-B.COM CONTACTS: DAVID STEFFEN	CARTER BURGESS 1420 WEST MOCKINGBIRD LN STE. 800 DALLAS, TX. 75247 PH: 214.920.8100 214.688.0618 EMAIL: E-MAIL ADDRESS CONTACTS: BRIAN CHANDLER

DIRECTOR OF CONSTRUCTION

PARKWAY CONSTRUCTION + ASSOCIATION
100 CIVIL CIRCLE
LEWISVILLE, TEXAS 75067
PH: 972-221-1979

CEC SUPPLIER LIST

FLOOR AND WALL TILE

AMERICAN TILE SUPPLY
10550 PLANO RD.
DALLAS, TX. 75238
214.343.5733

CONTACTS: GILL COOKER

PAINTS/STAINS

NATIONAL ACCOUNT MANAGER
214.553.3940

CONTACTS: JOHN GASTON

MARLITE

972-250-9260
CONTACT: JERRY MACKIE

MILLWORK

MIDWEST CABINET CO. INC.
1674 INDUSTRIAL AVE.
OTTAWA, KS. 66067
785.424.8181
CONTACTS: JOHN GRIFFIN

VISTAWALL

214-574-5772
CONTACT: KEVIN MCILLEN

ACOUSTICAL CEILINGS

ARMSTRONG
800.442.4212
CONTACTS: PHYLLIS MILLER

WALL CORNER GUARDS

PALM BEACH PLASTICS
314.353.0231
CONTACTS: MARLEEN KERTSCHMANN

AIR BALANCE

PHONE: 614-771-7993
CONTACT: DAVE KAISER

DOOR HARDWARE

UNIVERSAL MANUFACTURING CO.
800.821.1414
CONTACTS: THERESA

SIGN COMPANY

STARLITE SIGN LP
800.659.2493
CONTACTS: TAMMY ANGEL

CODE INFORMATION

BUILDING OCCUPANCY CLASS: CONSTRUCTION TYPE:	2002 ARKANSAS FIRE PREVENTION CODE A-2 V-UNPROTECTED SPRINKLER
MECHANICAL ELECTRICAL PLUMBING FIRE ACCESSIBILITY ENERGY	1997 ARKANSAS STATE MECHANICAL CODE NEC 2002 1999 ARKANSAS STATE PLUMBING CODE 2002 ARKANSAS STATE FIRE CODE ANSI ARKANSAS ENERGY CODE

EXISTING AREA:
EXPANSION AREA:
TOTAL LEASE AREA:

SEATING COUNT

EXISTING SHOWROOMS	190
KIDDE	59
SKILLS	12
TOTAL SEATING	261
NEW SHOWROOMS	187
KIDDE	100
SKILLS	89
TOTAL SEATING	376
CEC OCCUPANCY SIGNAGE TO READ:	

INDEX TO DRAWINGS:

10101 COVER SHEET, CONTACTS & INDEX	
10102 EXISTING SITE PLAN	
DEMOLITIONS:	
D1.0 DEMOLITION FLOOR PLAN	
D1.1 DEMOLITION REFLECTED CEILING PLAN	
D2.0 DEMOLITION EXTERIOR ELEVATIONS	
ARCHITECTURAL:	
A1.0 ABBREVIATIONS	
A1.0 FLOOR PLAN AND FURNISHING PLAN	
A1.1 FLOOR FINISH PLAN	
A1.2 REFLECTED CEILING PLAN	
A1.3 ROOF PLAN	
A1.4 FURNISHING PLAN / DECOR	
A2.0 EXTERIOR ELEVATIONS AND INTERIOR ELEVATIONS	
A2.1 INTERIOR ELEVATIONS	
A3.0 EXTERIOR WALL SECTIONS AND DETAILS	
KITCHEN:	
K3.0 FLOOR PLAN - POWER	
MECHANICAL:	
MEP1.1 MECHANICAL ROOF PLAN	
M1.0 MECHANICAL FLOOR PLAN	
M2.0 MECHANICAL SCHEDULES AND DETAILS	
PLUMBING:	
P1.0 PLUMBING FLOOR PLAN	
ELECTRICAL:	
E1.0 FLOOR PLAN LIGHTING DEMO	
E1.1 FLOOR PLAN LIGHTING	
E1.2 FLOOR PLAN POWER DEMO	
E1.3 FLOOR PLAN POWER	
SPECIFICATIONS:	
SP1.0 SPECIFICATIONS	
SP2.0 SPECIFICATIONS	
SP3.0 SPECIFICATIONS	
SP4.0 SPECIFICATIONS	
SP5.0 SPECIFICATIONS	
02-26-07 PERMIT ISSUE SET	
03-20-07 CITY COMMENTS / RESPONSES	

PROJECT SCOPE

THIS IS A MINOR REMODEL OF AN EXISTING CHUCK E. CHEESE (CEC) STORE. THE MAIN CHANGES ARE FURNITURE AND GAMES, A COMBINATION OF RELOCATED, REPLACED AND NEW BOOTHS, TABLES AND REPLACED GAMES AS INDICATED ON THE FURNITURE PLAN, A1.1. NEW TABLES ARE TO REPLACE EXISTING, THE OVERALL DENSITY AND LAYOUT OF THE DINING AREA IN FRONT OF THE STAGE IS BEING EXISTING, WITH A MORE OPEN FEEL BEING GENERATED WITH THE REMOVAL OF DECORATIVE (NON STRUCTURAL) INTERIOR HALF WALLS, INCREASING VISIBILITY AND CIRCULATION SPACE BETWEEN GAMES AND FURNITURE, ALONG WITH A MORE VIBRANT INTERIOR COLOR AND ART PACKAGE. THE STORE IS TO RECEIVE NEW CARPET THROUGHOUT, AREAS OF NEW CARPET (SEE FLOOR PLAN, A1.1), AN EXISTING 12" RAISED PLATFORM WITH ATTACHED BOOTHS, IS TO BE REMOVED WITH FURNITURE BEING REMOVED. EXISTING CEILING HEADERS ARE BEING REDUCED AND REMOVED WITH EXISTING LIGHTS BEING REPLACED.

INTERIOR:
REMOVE ALL HALF WALLS AND SOME INTERIOR FULL HEIGHT WALLS, REF. A1.0, D1.0 AND D1.1. REPLACE ALL TABLES AND CHAIRS, REF. A1.4.
RAISED HEADER AT ORDER ENTRY, REF. A1.2
NEW RESTROOM VANITY COUNTERS AND LAVS WITH NEW HARDWARE, REF. A1.0
NEW CEILING TILE THROUGHOUT STORE WITH NEW 2'x4' FLUORESCENT LIGHTING, REF. D1.1 AND A1.2

NEW DECOR PACKAGE PER CHUCK E. CHEESE'S CORPORATE DIRECTION.

EXTERIOR FRONT ELEVATION TO RECEIVE MINOR RENOVATION. ADDITION OF EPS CHECKERBOARD FACADE, ARCH WITH NEW LOGO AND LETTER SIGN.

G.C. TO COORDINATE RELOCATION OF FIRE SPRINKLER SYSTEM AND MECHANICAL SYSTEM TO NEW CEILING HEIGHT.

THERE ARE NO CHANGES TO EXISTING KITCHEN AREAS, EXISTING FIRE EXTINGUISHERS AND PATHWAYS ARE BEING MAINTAINED/INCREASED WITH EXISTING ADA COMPLIANT RESTROOM FACILITIES UPGRADED TO MEET ADA COMPLIANCE, CAPABLE OF MEETING THE CURRENT PROPOSED OCCUPANT LOAD REQUIREMENTS PER CODE.

EXISTING APPROVED "LIFE SAFETY" FIRE ALARMS AND FIRE EXTINGUISHER NUMBERS TO REMAIN UNALTERED, UNLESS FIRE INSPECTOR REQUESTS INCREASE/RELOCATION.

THE RESTAURANT WILL BE EXPANDED TO THE EAST 3,305 SQ. FT. CHANGE TO EXISTING CURB ARE LIMITED TO THE ELIMINATION OF THE LOADING AREA. THE SCOPE OF THE EXISTING CURB INCHES BUT IN NOT LIMITED TO THE ADDITION OF THE APPROPRIATE STRUCTURAL STEEL AND FLOOR PAD.

GENERAL NOTES

- G.C. SHALL FOLLOW PLANS & SPECIFICATIONS. NO MODIFICATIONS SHALL BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY ARCHITECT OR ENGINEER OF RECORD.
- FIRE EXTINGUISHER CABINETS ARE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR IN COMPLIANCE WITH CITY AND APPLICABLE CODES.
- FIRE SPRINKLERS AND FIRE ALARM SYSTEMS TO BE SUBMITTED BY GENERAL CONTRACTOR FOR SEPARATE REVIEW AND PERMIT BY FIRE DEPARTMENT.
- BOTH PLACEMENT AND QUANTITY OF FIRE EXTINGUISHERS TO BE DETERMINED BY FIRE MARSHALL AND COMPLY WITH ALL NFPA REQUIREMENTS. REFER TO SHEET SP1, SECTION 10521.
- STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE IN ACCORDANCE WITH FIRE CODE (NO SUCH LIQUIDS STORED ON THIS SITE).
- PROVIDE KNOX BOX BRAND SECURITY KEY BOX TO COMPLY WITH FIRE CODE.
- SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.
- KITCHEN EQUIPMENT SHOWN IS BASED ON BEST INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER FOR FINAL PLACEMENT, AND BEFORE ANY CRITICAL DIMENSIONS.

Carter-Burg

CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
DALLAS, TEXAS 75247
PHONE: 214.920.8100
FAX: 214.688.0618



2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903

CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



COVER SHEET

CITY COMMENTS 3/8/07

PROJECT NUMBER
024216.006

SHEET NUMBER
CS

ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 3/20/07



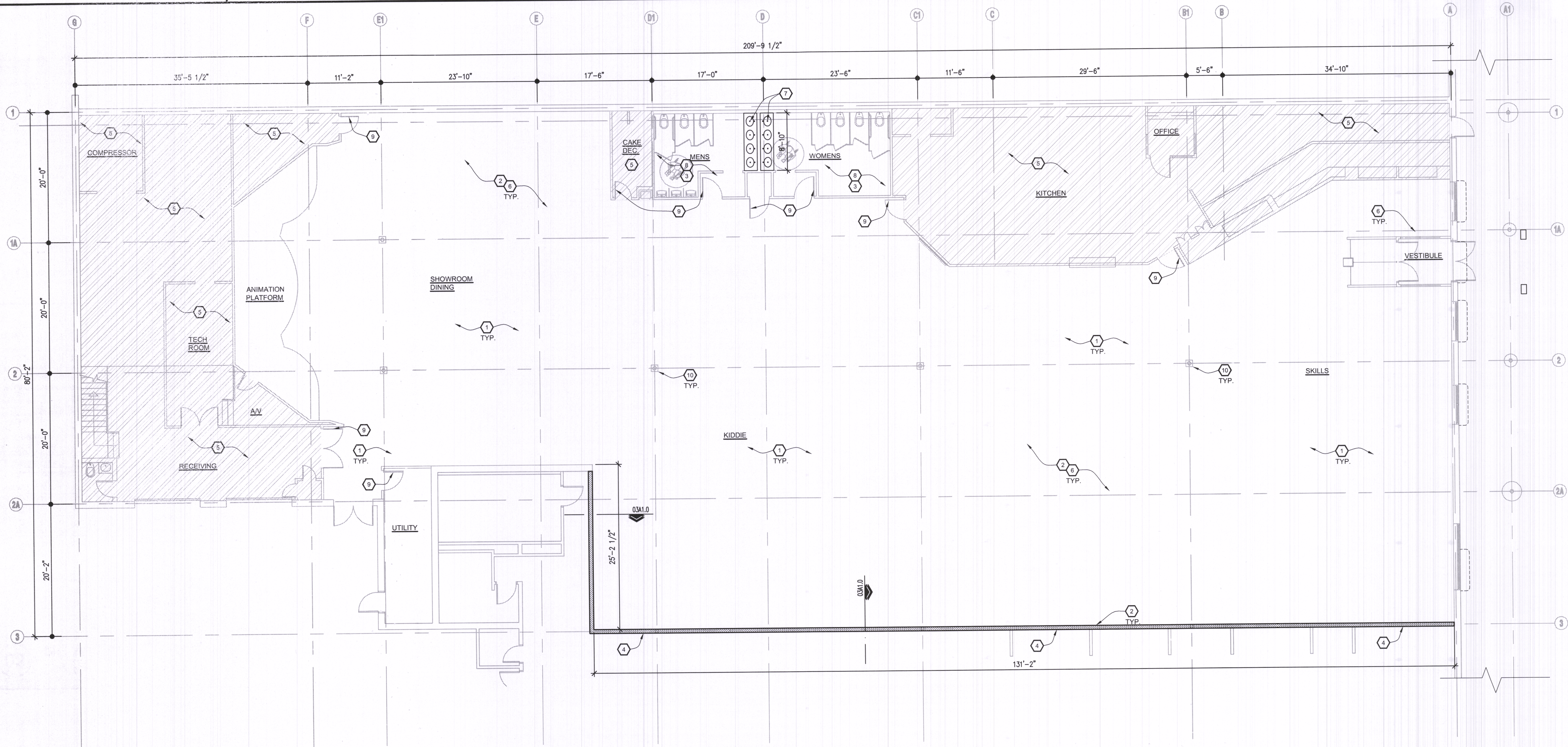
2/26/07

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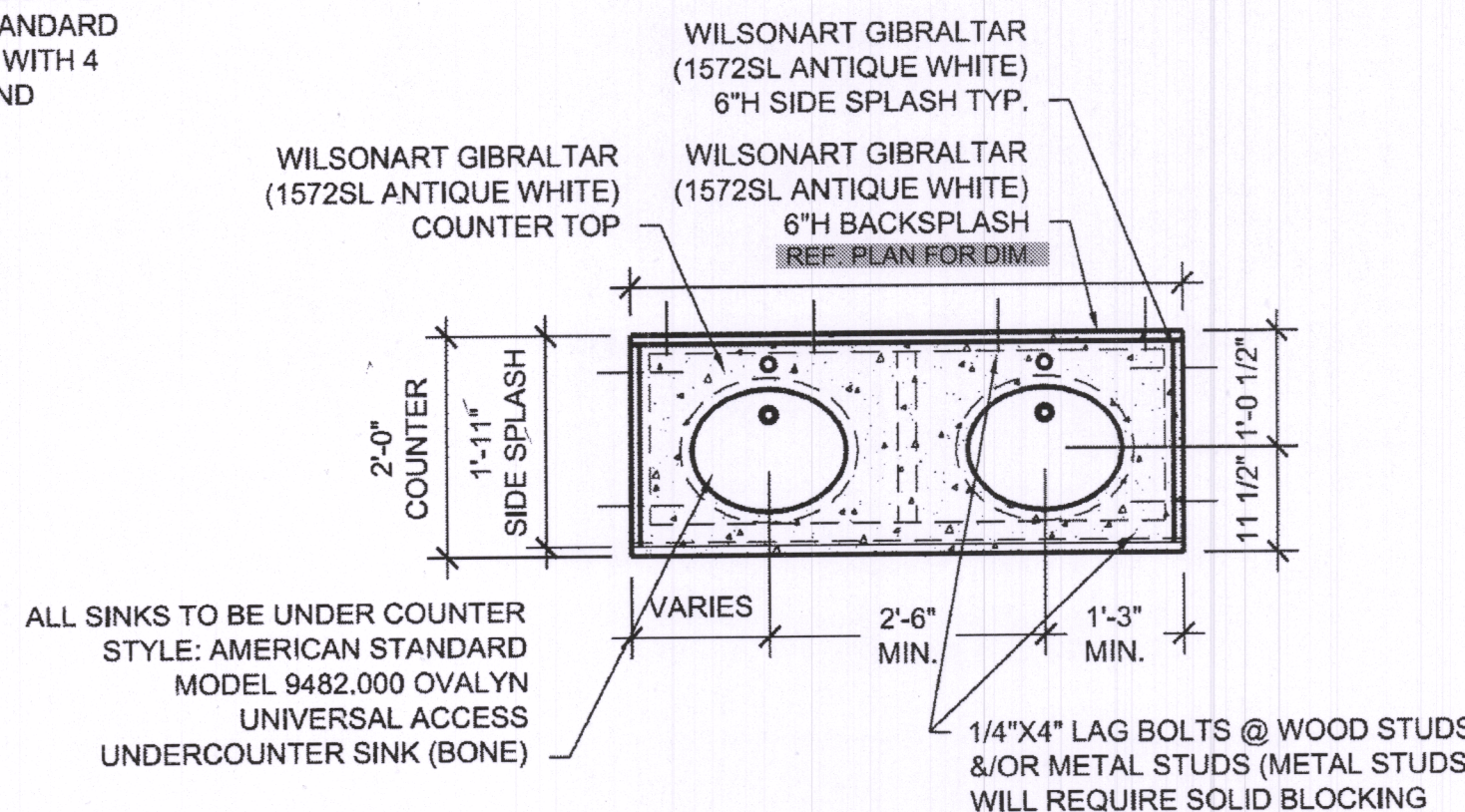
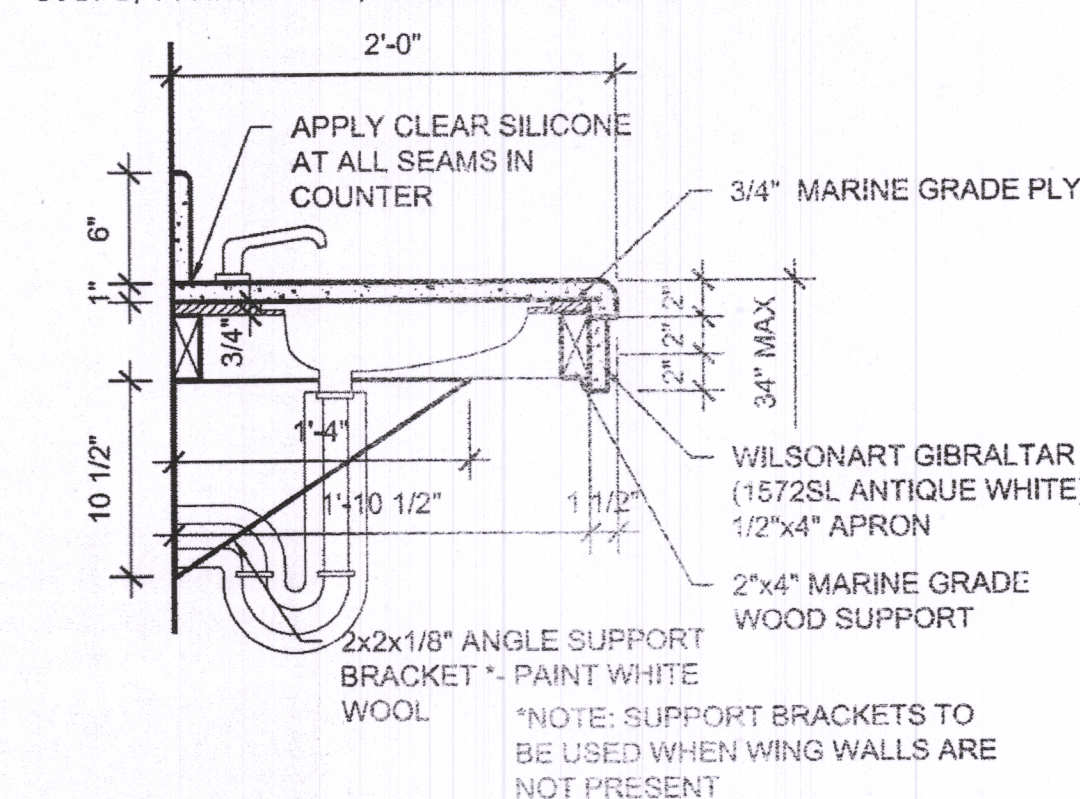
FLOOR PLAN AND NEW FURNISHING PLAN



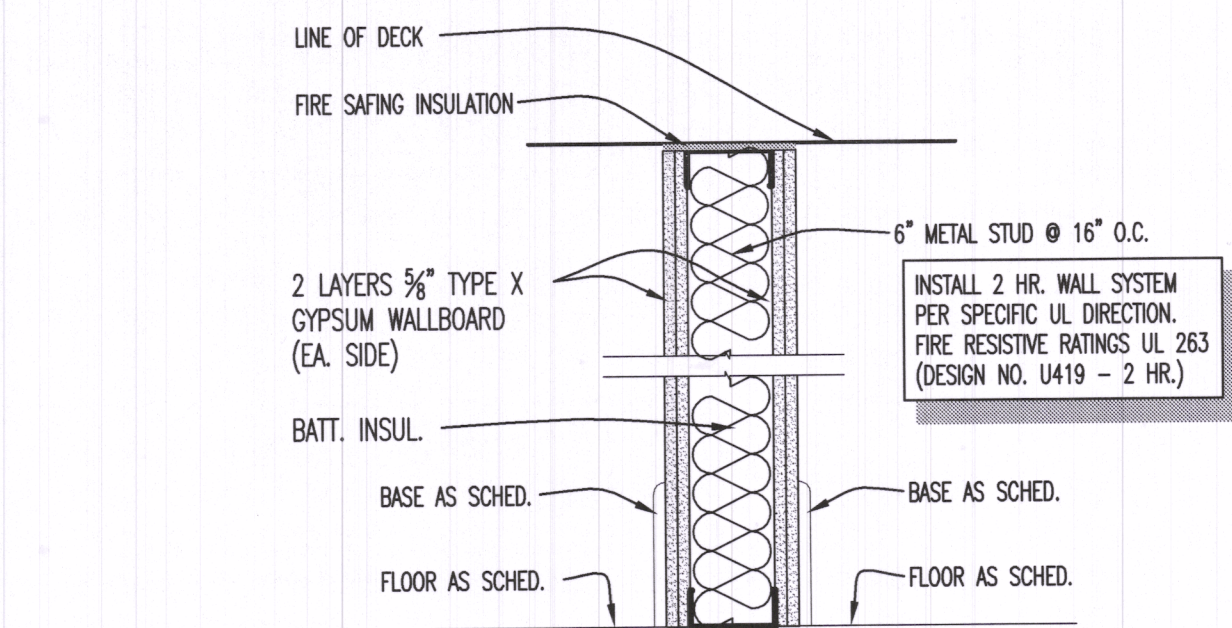
01 FLOOR PLAN
SCALE: 1/8"=1'-0"

SINK, FAUCET, & HARDWARE SPEC:

AMERICAN STANDARD MODEL 9482.000 OVALYN UNIVERSAL ACCESS UNDERCOUNTER SINK (BONE), VITREOUS CHINA, 19 1/4 IN. BY 15 3/4 IN. LAV. WITH AMERICAN STANDARD MONTERREY NO. 5502.170 FAUCET WITH CONVENTIONAL SPOUT, GRID DRAIN, WITH 4 IN. WRIST BLADE HANDLES, 002 17 GA. CHROME FINISH, MCGUIRE SUPPLIES AND STOPS, 1 1/4 IN. P-TRAP, HANDICAP ACCESSIBLE.



02 NEW RESTROOM COUNTER
SCALE: N.T.S.



03 2 HR. WALL DETAIL (U419)
SCALE: N.T.S.

GENERAL NOTES

- ALL REPAIR AND PATCH WORK SHALL MATCH ADJACENT SURFACES AND HAVE NO VISIBLE BEAMS.
- DO NOT PAINT OVER SECURITY CAMERAS, SECURITY FIRE ALARM BELLS AND ASSOCIATED PUMPS, FIXTURES AND OTHER LIFE SAFETY FIXTURES. DO NOT PAINT OVER ELECTRICAL AND PLUMBING LABELS.
- ALL WOOD AND RUBBER BASE, WAINSCOT AND WOOD CHAIR RAILS TO BE LEFT AS IS UNO.
- NEW AND RELOCATED ELECTRICAL ITEMS ARE SHOWN IN BOLD GRAPHICS ON PLANS; EXISTING ELECTRICAL ITEMS ARE SHOWN IN LIGHT GRAPHICS ON PLANS.
- INSTALL NEW FLOOR POWER, PHONE AND AIRE OUTLETS AS DETERMINED BY GAMES. RELOCATE OUTLETS FROM UNDER GAMES AS REQUIRED. AFTER GAMES INSTALL IS COMPLETE, REPLACE ANY EXPOSED BROKEN FLOOR OUTLET COVERS.
- CHERRY WOOD STAIN SPEC. USED ON CHAIR RAILS HALF-WALL CAPS AND MISC.
1ST. COAT - SHERWIN WILLIAMS SHERWOOD VINTAGE STAIN 564 SERIES (CHERRY 9468) CHERRY WITH 4 OZ. "MAD RED OXIDE".
2ND. COAT - SHERWIN WILLIAMS SHER-WOOD VINYL SEALER 24% TUFF.
3RD. COAT - SHERWIN WILLIAMS SHER-WOOD CAB - ACRYLIC LACQUER T75015.
4TH. COAT - SAME AS THIRD COAT.
- SEAL ALL PENETRATIONS OF FIRE RATED ASSEMBLIES WITH UL OR OTHER APPROVED TESTING AGENCY METHODS AND MATERIALS.
- PER FORT SMITH MUNICIPAL CODE, SECTION 22.3, ALL STRUCTURES SHALL HAVE ADDRESS NUMBERS PLACED ON THE BUILDING.

KEYED NOTES

- PROVIDE NEW FURNITURE AND TABLES AS SPECIFICATION, REFER TO SHEET A1.4 FOR FURNISHING PLAN.
- RELOCATED WALL EQUIPMENT - NEW LOCATION OF EXISTING FIXTURES (FIXTURES INCLUDE: THERMOSTAT, ALARM PULLS, ALARM STROBE, FIRE EXTINGUISHER, AND MANAGERS PANEL).
- G.C. TO INSPECT RESTROOMS AND REPLACE ALL DAMAGED CEILING TILE TO MATCH EXISTING.
- PROVIDE NEW DEMISING WALLS AS SHOWN ON PLAN.
- AREA NOT BE AFFECTED BY CONSTRUCTION.
- PROVIDE AND INSTALL NEW CARPET AND BASE THROUGHOUT ENTIRE STORE BEAMS TO BE LOCATED AT LOW TRAFFIC AREAS. REF. FLOOR FINISH A1.1.
- NEW LAVATORY AND COUNTER, REFER TO 02A1.0 SIMILAR.
- EXISTING SOAP DISPENSERS, PAPER TOWEL DISPENSER AND TRASH RECEPTACLE TO REMAIN AND REUSED.
- PAINTED DOORS AND FRAMES: PAINT ALL INTERIOR DOOR FRAMES WINDOWS GRAY. PAINT ALL METAL FIRE DOORS AND FRAMES WHITE WOOL RE. PAINT SCHEDULE ON SHEET A1.1.
- PATCH AND REPAINT EXISTING COLUMN.

WALL LEGEND

- SOLID LINES: NEW WALLS
SCREEN INDICATES: WALLS TO REMAIN

CITY COMMENTS 3/8/07

PROJECT NUMBER
024216.006

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A - TERMS AND ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
ACOUS PNL	ACOUSTICAL PANEL
ADIM	ADDITIONAL
ADDL	ADDITIONAL
ADJ	ADJACENT (ADJUSTABLE)
AGGR	AGGREGATE
A/C	AIR CONDITION
ALT	ALTERNATE
ALUM	ALUMINUM
ASCC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APA	AMERICAN PLYWOOD ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ADA	AMERICANS WITH DISABILITIES ACT
AMT	AMOUNT
AHR	ANCHOR
APPROX	APPROXIMATE
ARCH	ARCHITECT
A/E	ARCHITECT/ENGINEER
AMI	ARCHITECTURAL WOODWORKING INSTITUTE
AD	AREA DRAIN
ASPH	ASPHALT
ABC	ASSOCIATED BUILDERS AND CONTRACTORS
ABC	ASSOCIATED GENERAL CONTRACTORS
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AZ	AZIMUTH

B - TERMS AND ABBREVIATIONS

BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BM	BEAM
BRG	BEARING
BRG PL	BEARING PLATE
BLW	BELOW
BM	BENCHMARK
BTUM	BITUMINOUS
BD	BOARD
BOT	BOTTOM
BLVD	BOULEVARD
BRK	BRICK
BRKT	BRACKET
BRG	BRACING
BRDG	BRIDGING
BLD	BUILD
BLDG	BUILDING
BOCA	BUILDING OFFICIALS AND CODE ADMINISTRATORS ASSOCIATION INTERNATIONAL
BP	BUILDING PAPER
BLT	BUILT
BLKHD	BULKHEAD

C - TERMS AND ABBREVIATIONS

CAB	CABINET
CTV	CABLE TELEVISION
CAN	CANOPY
CANV	CANVAS
CPT	CARPET
CO	CASED OPENING (CLEAN OUT)
CLG	CEILING
CLG HT	CEILING HEIGHT
CEM	CEMENT
CTR	CENTER
CER	CERAMIC
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTI	CERAMIC TILE INSTITUTE OF AMERICA
CO	CERTIFICATE OF OCCUPANCY
CHFR	CHAMFER
C	CHANNEL
CHK	CHECK
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CLASS	CLASSIFICATION
CLR	CLEAR
CLT	CLEAT
CLW	CLOCKWISE
COL	COLUMN
CO	COMPANY
CNC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CNDS	CONDENSATE
CONDON	CONDENSATION
CND	CONDITION (S)
CNDSTR	CONDUIT
CD	CONSTRUCTION DOCUMENTS
CJ	CONSTRUCTION JOINT
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CONSULT	CONSULTANT
CONT	CONTINUE
CONTR	CONTRACT
CD	CONTRACT DOCUMENTS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CNR	CORNER
CG	CORNER GUARD
CORR	CORROSION (CORRUGATED)
CNTR	COUNTER
CCW	COUNTERCLOCKWISE
CFLG	COUNTER FLASHING
C&G	CURB AND GUTTER
CUR	CURRENT

D - TERMS AND ABBREVIATIONS

DMPR	DAMPER
DAT	DATUM
DB	DECIBEL
D	DEEP
DEF	DEFINITION
DFLCT	DEFLECTION
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DSN	DESIGN
DET	DETAIL
DIAG	DIAGONAL
DA	DIAMETER
DIFF	DIFFERENCE (DIFFUSER)
DIM	DIMENSION
DNR	DIMMER
DC	DIRECT CURRENT
DIR	DIRECTION
DW	DISHWASHER
DISP	DISPENSER
DIST	DISTANCE
DISTR PNL	DISTRIBUTION PANEL
DOC	DOCUMENT
DOR	DOOR
DR FR	DOOR FRAME

D - CONTINUED

DBL	DOUBLE
XXH	DOUBLE EXTRA HEAVY
DS	DOWN SPOUT
DWR	DRAWER
DWG	DRAWING
DF	DRAINING FOUNTAIN
DX	DUPLEX
DX OUT	DUPLEX OUTLET

E - TERMS AND ABBREVIATIONS

EA	EACH
EW	EACH WAY
ESMT	EASEMENT
EL	EASEMENT LINE
E	EAST
EDS	EDGE OF SLAB
ELAST	ELASTOMERIC
ELEC	ELECTRIC
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EP	ELECTRICAL PANEL (PANEL BOARD)
ELEV	ELEVATION
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENW	ENGINEERED WOOD ASSOCIATION
ENTR	ENTRANCE
ENVR	ENVIRONMENT
EPA	ENVIRONMENTAL PROTECTION AGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCUTCHEON
EST	ESTIMATE
ETC	ET CETERA
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EX	EXAMPLE
EXH	EXHAUST
EXH FN	EXHAUST FAN
EXIST	EXISTING
EXT LT	EXIT LIGHT
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EXP	EXPANSION
EJ	EXPANSION JOINT
EXTN	EXTENSION
EXT	EXTERIOR
EFS	EXTERIOR INSULATION AND FINISH SYSTEM
XL	EXTRA LARGE
EXTRU	EXTRUSION (EXTRUDED)

F - TERMS AND ABBREVIATIONS

FOC	FACE OF CONCRETE (FACE OF CURB)
FOF	FACE OF FINISH
FOS	FACE OF SLAB (FACE OF STUD)
FACIL	FACILITY
FAX	FACSIMILE
FAS	FASCIA
FTNR	FASTENER
FEET	FEET
FRP	FIBERGLASS REINFORCED PLASTIC
FIN	FINISH
FF	FINISH FACE
FIN FLR	FINISH FLOOR
FF EL	FINISH FLOOR ELEVATION
FIN GR	FINISH GRADE
FRAP	FIRE ALARM ANNUNCIATOR PANEL
FE	FIRE EXTINGUISHER
FR	FIRE RESISTANT
FRTW	FIRE RETARDANT TREATED WOOD
FIXT	FIXTURE
FLASH	FLASHING
FLX	FLEXIBLE
FLR	FLOOR
FAR	FLOOR AREA RATIO
FDO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FLR FIN	FLOOR FINISH
FLUOR	FLUORESCENT
FT	FOOT
FTG	FOOTING
FDTN	FOUNDATION
FR	FRAME (FRAMED) (FRAMING)
FRWY	FREEWAY
FS	FULL SCALE
FURN	FURNISH
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT

G - TERMS AND ABBREVIATIONS

GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GEN	GENERAL
GEN COND	GENERAL CONDITIONS
GC	GENERAL CONTRACTOR
GL	GLASS
GRFC	GLASS FIBER REINFORCED CONCRETE
GLU LAM	GLUED LAMINATED WOOD
GB	GRAB BAR
GR BM	GRADE BEAM
GRAN	GRANITE
GROM	GROMMET
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GYP	GYPSUM
GYP BD	GYPSUM BOARD

H - TERMS AND ABBREVIATIONS

HD	HAND DRYER
HC	HANDICAP
HDR	HANDRAIL
HGR	HANGER
HOW	HARDWARE
HDR	HEADER
HMY	HEAVY
HT	HEIGHT
HWY	HIGHWAY
HO	HOLD OPEN
HLDN	HOLDDOWN
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HO	HOT
HW	HOT WATER
HYD	HYDRANT

I - TERMS AND ABBREVIATIONS

ID	IDENTIFICATION
ILLUM	ILLUMINATION
INCAND	INCANDESCENT
ID	INSIDE DIAMETER (INSIDE DIMENSION)
INSTL	INSTALL
IGL	INSULATED GLASS
INSUL	INSULATION

I - CONTINUED

INT	INTERIOR
IBC	INTERNATIONAL BUILDING CODE
INV	INVERT

J - TERMS AND ABBREVIATIONS

JAN	JANITOR
J-BOX	JUNCTION BOX
JST	JOIST

K - TERMS AND ABBREVIATIONS

KES	KITCHEN EQUIPMENT SUPPLIER
KIT	KITCHEN

L - TERMS AND ABBREVIATIONS

LRG	LARGE
LAV	LAVATORY
LS	LANDSCAPE
LDR	LEADER
LT	LIGHT
LTG	LIGHTING
LF	LINEAR FEET (FOOT)
LQ	LIQUID
LVR	LOUVER
LS	LUMP SUM

M - TERMS AND ABBREVIATIONS

MH	MANHOLE
MFD	MANUFACTURED
MFR	MANUFACTURER
MFR REC	MANUFACTURER'S RECOMMENDATION
MFG	MANUFACTURING
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDIUM
MEL	MELAMINE
MBR	MEMBER
MEMB	MEMBRANE
MWP	MEMBRANE WATERPROOFING
MTL	METAL
MTF	METAL FLASHING
MIRR	MIRROR
MISC	MISCELLANEOUS
MOD BT	MODIFIED BITUMEN
MDC	MOLDING (MOLDING)
MS	MOP SINK
MTD	MOUNTED
MULL	MULLION

N - TERMS AND ABBREVIATIONS

NBC	NATIONAL BUILDING CODE
NEC	NATIONAL ELECTRICAL CODE
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
G	NATURAL GAS
NEG	NEGATIVE
NOM	NOMINAL
N	NORTH
NA	NOT APPLICABLE
NTS	NOT TO SCALE
NTP	NOTICE TO PROCEED
NO	NUMBER

O - TERMS AND ABBREVIATIONS

OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OCC	OCCUPY (OCCUPANCY)
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
OZ	OUNCE
OZ	OUNCE
OD	OUTSIDE DIAMETER
OA	OVERALL
OFD	OVERFLOW DRAIN
ORD	OVERFLOW ROOF DRAIN
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/CI	OWNER FINISHED/OWNER INSTALLED

P - TERMS AND ABBREVIATIONS

PNT	PAINT
PR	PAIR
PNL	PANEL
PAR	PARALLEL
PARPT	PARAPET
PRKG	PARKING
PKWY	PARKWAY
PTN	PARTITION
PAT	PATTERN
PVG	PAVING
D	PENNY (NAIL)
PERP	PERPENDICULAR
PH	PIECE
PC	PIECE
PLAS	PLASTER / PLASTIC
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYMD	PLYWOOD
LB	POUND
PWR	POWER
PREFAB	PREFABRICATE
PT	PRESSURE TREATED
PROJ	PROJECT
PROP	PROPERTY
PL	PROPERTY LINE
PB	PULL BOX
PS	PULL STATION

Q - TERMS AND ABBREVIATIONS

QC	QUALITY CONTROL
QCR	QUALITY CONTROL REVIEW
QTY	QUANTITY
QT	QUARRY TILE

R - TERMS AND ABBREVIATIONS

R	RADIUS
REC	RECESSED
REF	REFER (ENCE)
REFL	REFLECT (ED)
RCP	REFLECTED CEILING PLAN
REBAR	REINFORCING STEEL BARS

R - CONTINUED

RF1	REQUIRE FOR INFORMATION
REQ	REQUIRE (MENT)
REQD	REQUIRED
RESIL	RESILIENT
RB	RESILIENT BASE
REST	REST ROOM
RA	RETURN AIR
RVL	REVEAL
REV	REVISION
ROW	RIGHT OF WAY
RDC INS	ROOF INSULATION, SOLID
RD	ROAD
RM	ROOM
RFG	ROOFING
RO	ROUGH OPENING
RS	ROUGH SAWN
RND	ROUND

S - TERMS AND ABBREVIATIONS

SAN	SANITARY
SLAT	SLANT
SND	SOUND
SCHED	SCHEDULE
SCP	SCUPPER
SH	SHELVING (SHELF)
SOG	SILING
SD	SOAP DISPENSER
SC	SOLID CORE
SND INS	SOUND INSULATION
STC	SOUND TRANSMISSION GLASS
S	SOUTH
SPKR	SPEAKER
SPKLR	SPEAKER
SPCL	SPECIAL
SQ	SQUARE
SF	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SST	STAINLESS STEEL
STD	STANDARD
SS	STANDING SEAM
STL JST	STEEL JOIST
STL LNTL	STEEL LINTEL
STL PL	STEEL PLATE
STOR	STORAGE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SS	STORM SEWER
ST	STREET
STRUCT	STRUCTURAL
SUP	SUPPLEMENTARY
SUSP CLG	SUSPENDED CEILING
SYML	SYMBOL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM

T - TERMS AND ABBREVIATIONS

TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPERATURE (TEMPERED)
TMPO GL	TEMPERED GLASS
TIGL	TEMPERED INSULATED GLASS
TEMP	TEMPORARY
TB-XX	TEST BORING-XX (C.G. TB-01)
TERM	THERMAL
THK	THICKNESS (THICK)
THRES	THRESHOLD
THRU	THROUGH
TPD	TOILET PAPER DISPENSER
TOL	TOLERANCE
T&G	TONGUE AND GROOVE
T&B	TOP AND BOTTOM
TOS	TOP OF BEAM
TOC	TOP OF CONCRETE
TOC	TOP OF CURB
TFF	TOP OF FINISH FLOOR
TO FDN	TOP OF FOUNDATION
TOC	TOP OF FRAME (NG)
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET (TOP OF PAVEMENT)
TOS	TOP OF SLAB (TOP OF STEEL)
TOT	TOP OF TROUGH
TOPO	TOPOGRAPHY
TD	TOWEL DISPENSER
XFER	TRANSFER
XMR	TRANSFORMER
TRANS	TRANSPARENT
T	TREATED
TRTD	TREATED
TD	TRENCH DRAIN
TN	TRUE NORTH
TS	TUBE STEEL
TRNKL	TURNBUCKLE
TYP	TYPICAL

U - TERMS AND ABBREVIATIONS

UL	UNDERWRITERS LABORATORIES
UBC	UNIFORM BUILDING CODE
UFC	UNIFORM FIRE CODE
UMC	UNIFORM MECHANICAL CODE
UPC	UNIFORM PLUMBING CODE
UNO	UNLESS NOTED OTHERWISE
UNO	UNLESS OTHERWISE NOTED
UR	URINAL
UTIL	UTILITY

V - TERMS AND ABBREVIATIONS

VAR	VARIATION (VERIFY) (VARIES)
VNR	VENEER
VP	VENEER PLASTER
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
VOLT	VOLTAGE

W - TERMS AND ABBREVIATIONS

WSCOT	WAINSCOT
WCO	WALL CLEAN OUT
WC	WATER CLOSET
WH	WATER HEATER
WP	WATERPROOFING (WEATHERPROOF)
WS	WEATHERSTRIP
WT	WEIGHT
WWF	WEDED WIRE FABRIC
WWM	WEDED WIRE MESH
W	WEST
WCL	WINDOW
WGL	WIRE GLASS
W/	WITH
W/O	WITHOUT
WD	WOOD

GENERAL NOTES:

- FOR THE PURPOSE OF THESE DRAWINGS "BY OWNER" SHALL MEAN ITEM PROVIDED BY OWNER, ASSEMBLED AND INSTALLED BY CONTRACTOR AS PART OF THE WORK OF THIS CONTRACT; THE ABBREVIATION "NIC" (NOT IN CONTRACT) SHALL MEAN ITEM PROVIDED AND INSTALLED BY OWNER UNDER SEPARATE CONTRACT.
- DIMENSIONS ARE TO FACE OF STUD, OR CMU, OR CENTERLINE OF EXISTING COLUMNS OR EDGE OF FOUNDATION, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS AND REQUIREMENTS OF THE DRAWINGS AN ACCOMPANYING SPECIFICATIONS, INCLUDING OTHER PARTS OF THE PROPOSED CONTRACT DOCUMENTS, AND FULLY UNDERSTAND THE CONDITIONS, DIFFICULTIES AND RESTRICTIONS COMPLETELY, BEFORE EXECUTING THE WORK. IT IS UNDERSTOOD THAT OMISSIONS FROM THE BID, DUE TO FAILURE OF THE CONTRACTOR TO FULLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DOCUMENTS, WILL NOT ENTITLE HIM TO ADDITIONAL CONSIDERATION AND/OR COMPENSATION. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS AT SITE PRIOR TO COMMENCING THE WORK.
- SHOULD THE CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM, THE CONSTRUCTION DOCUMENTS, OR BE IN DOUBT AS TO THE MEANING AND INTENTION OF ANY ITEM OR REQUIREMENT, HE SHALL NOTIFY THE OWNER AT ONCE.
- THE ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR TO ESTABLISH THE LIMITS AND EXTENT OF WORK TO BE PERFORMED BY A PARTICULAR TRADE. THE GENERAL CONTRACTOR ALONE IS RESPONSIBLE FOR THE COMPLETION OF THE ENTIRE WORK AS DRAWN AND SPECIFIED, COMPLETE IN PLACE AND IN FUNCTIONAL OR OPERATING CONDITION. THE DIVISION OF THE SPECIFICATIONS INTO SECTIONS AND PARAGRAPHS AND ORGANIZATION OF THE DRAWINGS IS FOR CONVENIENCE ONLY AND NOT FOR THE PURPOSE OF LIMITING OR RESTRAINING PERFORMANCE OF ANY PORTION OF THE WORK TO ANY PARTICULAR TRADE.
- CONTRACTOR TO PROVIDE ELECTRICAL BOXES, CONDUIT AND PULL WIRE FOR SOUND SYSTEM, SECURITY AND FIRE SYSTEM AS SHOWN IN MEP DOCUMENTS.
- ALL WORK PERFORMED SHALL COMPLY WITH THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, INCLUDING THESE GENERAL NOTES. THE CONTRACTOR SHALL COORDINATE THE INTENT OF THE GENERAL NOTES WITH ALL THE TRADES.
- THE STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECT

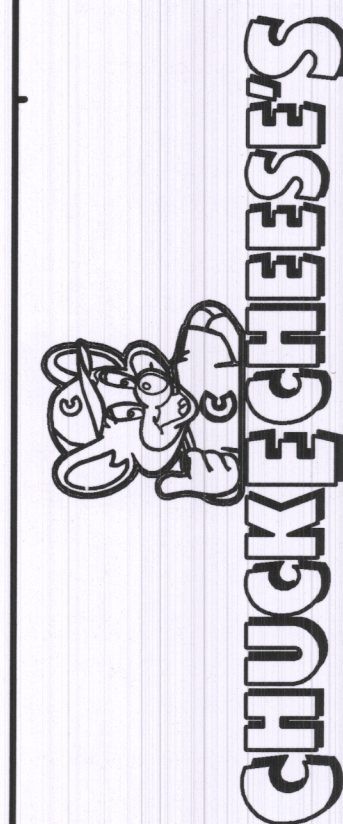


2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903

CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

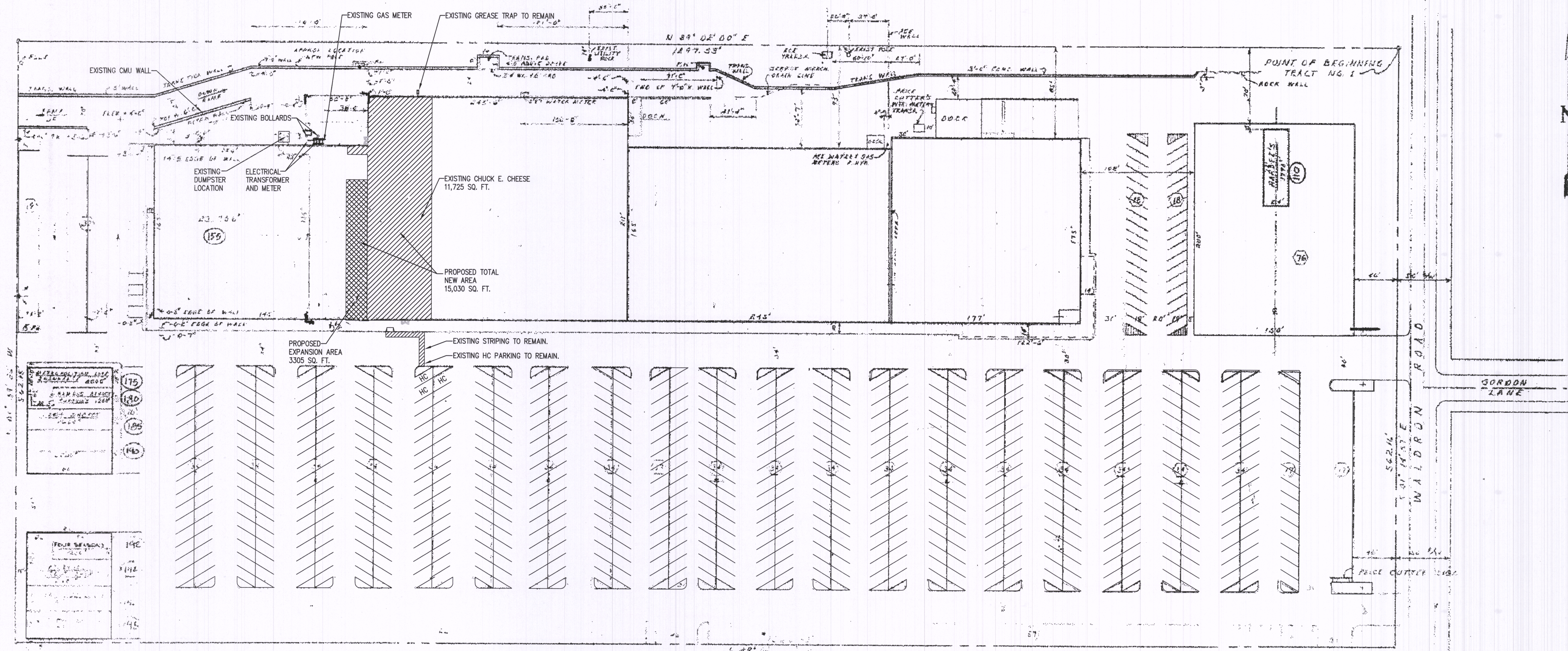


EXISTING SITE PLAN

PROJECT NUMBER
024216.006

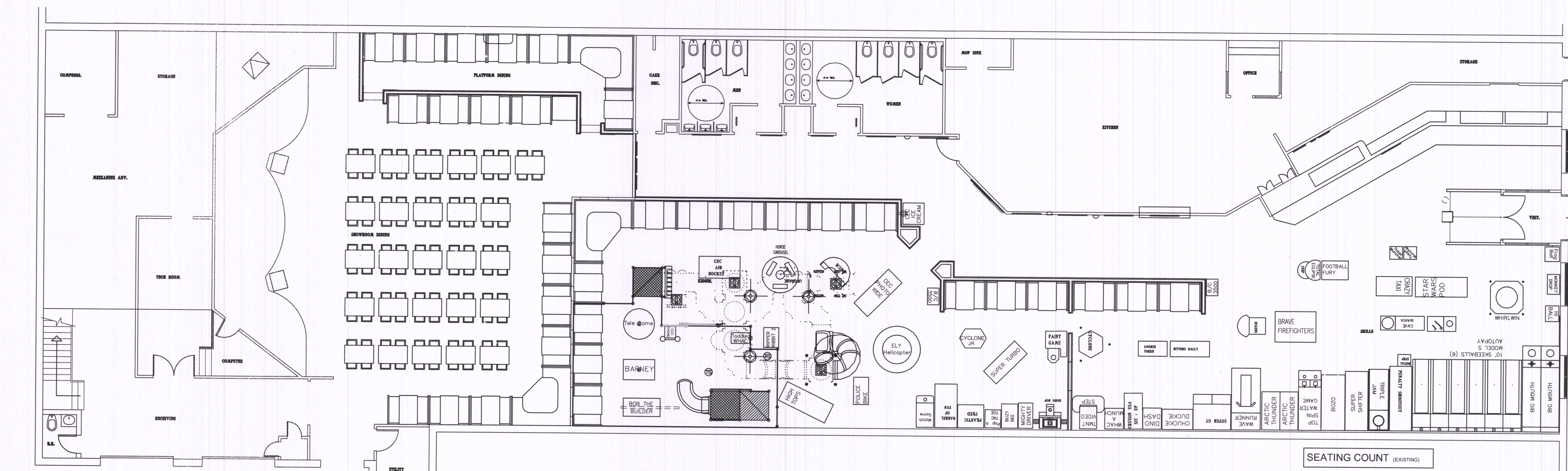
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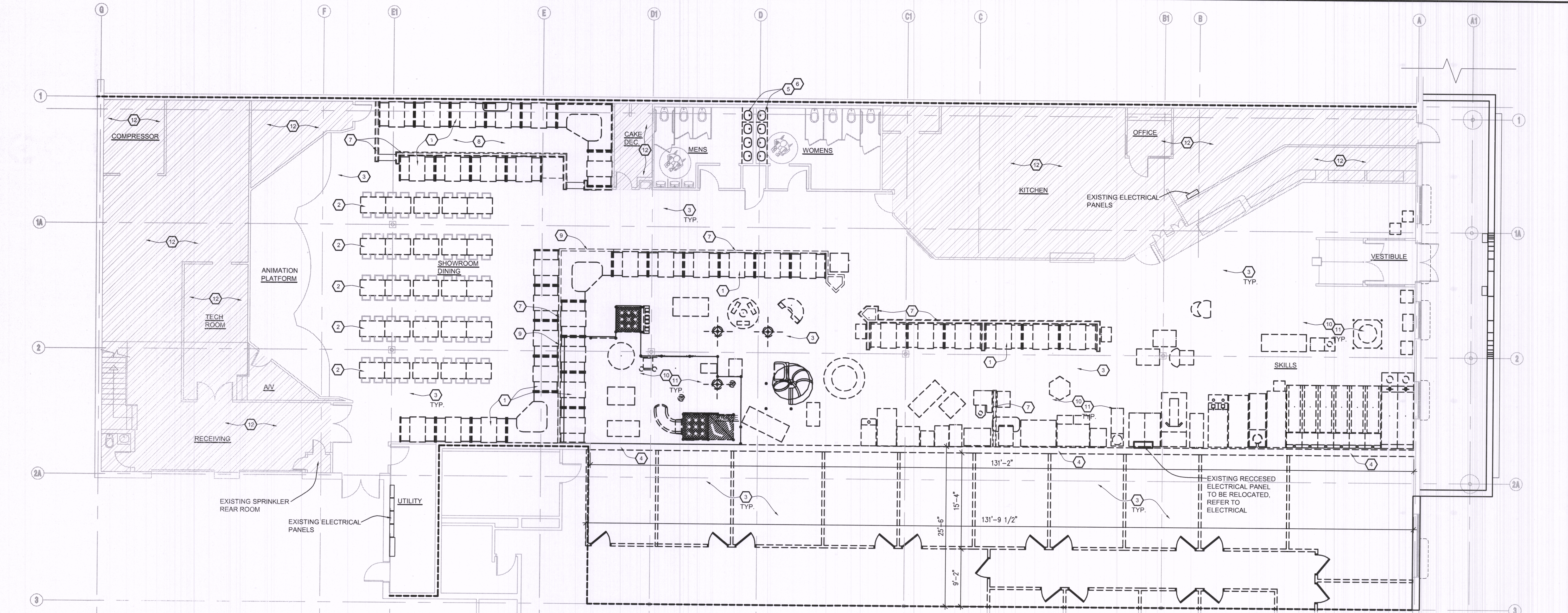
01 EXISTING SITE PLAN FOR REFERENCE ONLY
SCALE: N.T.S.

TRUE PLAN 01 EXISTING FURNISHING PLAN
SCALE: 1/8"=1'-0"



- DEMOLITION NOTES**
- 1 REMOVE EXISTING BOOTH SEATING.
 - 2 REMOVE EXISTING TABLES, CHAIRS TO REMAIN.
 - 3 REMOVE EXISTING CEILING, GRID, AND LIGHTING TO FULL EXTENTS. REMOVE EXISTING WALL COMPLETELY.
 - 4 REMOVE EXISTING DEMISING WALL.
 - 5 REMOVE EXISTING LAVATORY AND COUNTER TOP. REF. DETAIL 2A1.0.
 - 6 REMOVE EXISTING RESTROOM VANITY.
 - 7 REMOVE EXISTING LOW WALL.
 - 8 REMOVE EXISTING RAISED FLOOR FINISH TO FULL EXTENTS.
 - 9 EXISTING FULL HEIGHT WALLS TO BE REMOVED. ALL CARPET, WALL FINISHES, PART AND VINYLSCOT. CEILING TILE AND GRID AFFECTED BY REMOVAL OF FULL HEIGHT WALLS TO BE PATCHED AND REPAIRED TO MATCH NEW FOR REMAINING EXISTING FINISHES. RELOCATE ANY DISPLACED THERMOSTATS, FIRE ALARM STROBE, ETC. PATCH AND REPAIR ALL SUB-FLOORING TO MATCH EXISTING LEVEL SURFACE. SEE RCP FOR NEW GELING TREATMENT.
 - 10 EXISTING GAMES AND KIDDE EQUIPMENT TO BE REMOVED. RE SHEET A1.4 FOR NEW LAYOUT SELECTED AND LOCATION.
 - 11 EXISTING GAME ELECTRICAL CONTRACTOR TO COORDINATE WITH NEW OUTLETS. ALL EXISTING NOT USED SHALL BE REMOVED.
 - 12 AREA NOT TO BE AFFECTED BY CONSTRUCTION.
- GENERAL NOTES**
- 1 BOLD GRAPHICS INDICATE EXISTING ITEMS TO BE REMOVED OR RELOCATED. LIGHT GRAPHICS INDICATE EXISTING ITEMS TO REMAIN AND INCLUDE BUT ARE NOT LIMITED TO LIGHTING, SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES, STROBES, FIRE EXIT SIGNS, FIRE ALARMS, EMERGENCY LIGHTING, P.A. SYSTEM, SPRINKLERS AND ALL LIFE SAFETY EQUIPMENT.
 - 2 IF FIRE ALARM DEVICES MUST BE RELOCATED, COORDINATE WITH LOCAL FIRE AUTHORITY.
 - 3 ALL DAMAGE TO BE REPAIRED AND/OR PATCHED TO PROVIDE A SEAMLESS APPEARANCE IN SURFACE FINISH.
 - 4 VERIFY ALL REPAIR/REPLACE CARPET AREAS W/ C.E.C. IN REGARDS TO FLOOR OUTLET LOCATIONS FOR NEW GAMES.
 - 5 FURNITURE LAYOUT: DEMOLITION PLAN REPRESENTS EXISTING FURNITURE LAYOUT/SEATING COUNTS. FURNITURE PROVIDER TO VERIFY NEW LAYOUT OF FURNITURE WITH C.E.C. PRIOR TO ORDERING AND INSTALLATION.
 - 6 REPLACE & REMOVED ITEMS: UNUSED ITEMS TO BE STORED OR DESTROYED AS DIRECTED BY C.E.C. ENTERTAINMENT INC.
 - 7 EXISTING DECOR: C.E.C. TO REMOVE ALL EXISTING INTERIOR WALL MOUNTED ARTWORK AND ASSOCIATED J BOXES AND POWER SUPPLY FOR LIGHTING BEHIND SHELVING AND DECOR PRIOR TO REPAINTING. INSTALL MATCHING CORNER GUARDS AS NEEDED. EXISTING ARTWORK AND DECOR TO BE REUSED AND OR RELOCATED AS DIRECTED BY C.E.C. ENTERTAINMENT INC. ALL EXISTING COAT HOOKS TO REMAIN U.N.G. UNUSED ARTWORK AND DECOR TO BE STORED OR REMOVED AS DIRECTED BY C.E.C. ENTERTAINMENT INC.
 - 8 IF EXISTING, REMOVE ALL POWER POLES (CONVERT TO FLOOR OUTLETS, IF TO REMAIN) REFER TO SHEET K3.0 AND E1.3 FOR NEW OUTLET LOCATIONS.
 - 9 ELIMINATE ANY EXISTING POWER POLES AND RUN NEW ELECTRICAL INCLUDING PHONE AND AIR VIA FLOOR WALL OR CEILING OUTLETS AS REQUIRED.
 - 10 VERIFY EXISTING GAME OUTLETS TO REMAIN AND THE ADDITION OF WALL, CEILING, FLOOR, AND POWER POLE ELECTRICAL PER PLANS ALSO. VERIFY THE ADDITION OF FLOOR AND WALL TELEPHONE OUTLETS PER PLAN.
 - 11 REPAIR/REPLACE ANY BROKEN ELECTRICAL FLOOR OUTLET COVERS. REPLACE ANY EXPOSED ELECTRICAL WALL OUTLETS WITH GRAY SWEET OUTLETS AND COVERS.
 - 12 REMOVE ALL EXISTING DECOR AND INTERIOR SIGNAGE. REMOVE ANY UNUSED OUTLETS AND JUNCTION BOXES (4" CLOCK OUTLETS AND DECOR SHELF OUTLETS IN SHOWROOM). PATCH AND REPAIR WALLS AS NECESSARY. REPAINT THE INTERIOR WITH THE NEW COLOR SCHEME AND INSTALL THE NEW CEC INTERIOR SIGNAGE PACKAGE. SEE PLANS FOR DETAILS.

TRUE PLAN 02 DEMOILUTION FLOOR PLAN
SCALE: 1/8"=1'-0"



- DEMOLITION LEGEND**
- DASHED LINE
 - WALL/ITEMS TO BE REMOVED
 - SCREEN INDICATED
 - WALL/ITEMS TO REMAIN

Carter-Burgess
CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
DALLAS, TEXAS 75247
PHONE: 214.920.8100
FAX: 214.688.0618



2/26/07
EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



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EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903



CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

REFLECTED CEILING PLAN

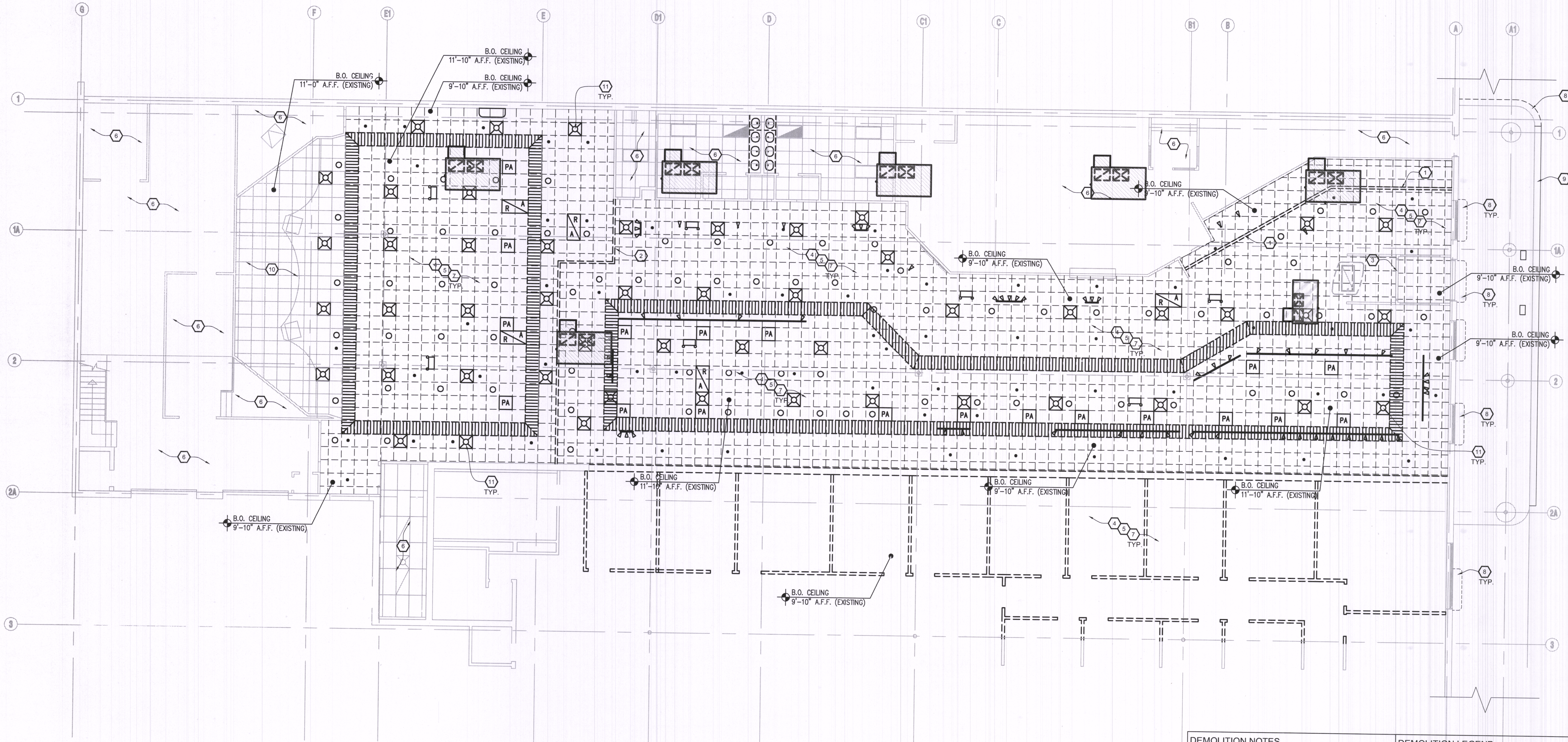
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DATE OF THIS PRINTING: 2/26/07



DEMOLITION NOTES

1. RAISE EXISTING HEADER. REF. DETAIL 02A1.2
2. EXISTING HEADER TO BE REMOVED. RE. SEE RCP FOR CEILING TREATMENT.
3. EXISTING HEADER TO REMAIN.
4. EXISTING CEILING TILE AREA TO BE REMOVED.
5. EXISTING CEILING EQUIPMENT AND FIXTURES TO BE REMOVED. RE. SEE RCP FOR NEW CEILING LAYOUT.
6. AREA NOT BE AFFECTED BY CONSTRUCTION.
7. EXISTING LIGHT FIXTURES TO BE REMOVED. REFER TO RCP A1.3 FOR NEW LIGHT LAYOUT.
8. EXISTING AWNING FABRIC, METAL FRAME AWNING AND LIGHT FIXTURES TO BE REMOVED.
9. RELOCATED EXISTING AWNING AND CANOPY TO REMAIN WITH NEW FABRIC FINISH.
10. EXISTING CEILING GRID TO REMAIN AND EXISTING CEILING TILES TO BE REMOVED.
11. EXISTING DUCT WORK TO BE RELOCATED TO NEW CEILING HEIGHT. REF. A1.3 FOR NEW LAYOUT.

DEMOLITION LEGEND

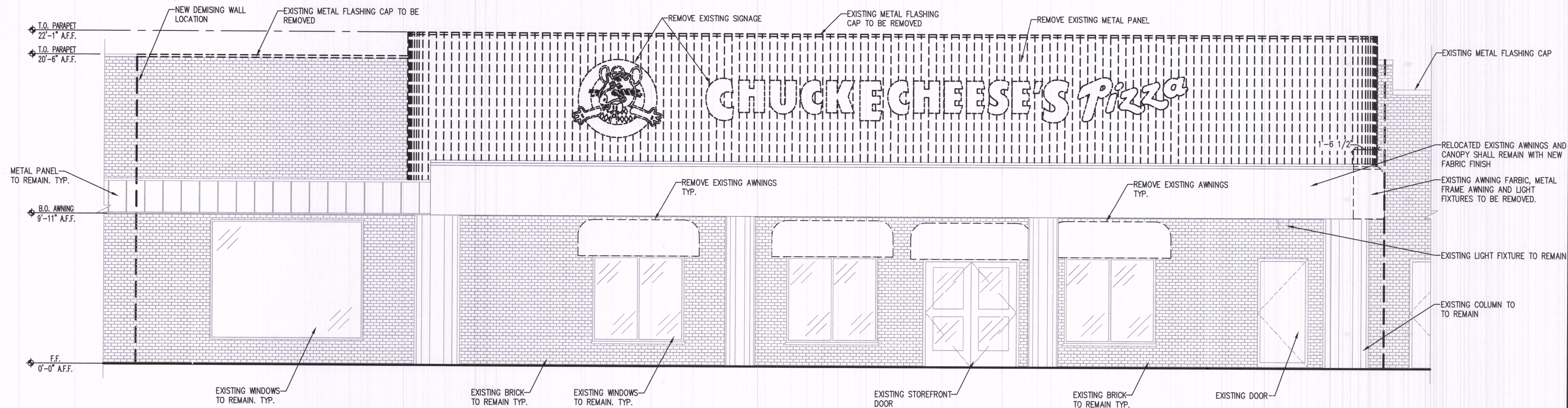
- DASHED LINES: WALL ITEMS TO BE REMOVED
- DASHED LINES: SCREEN INDICATES WALL ITEMS TO REMAIN

GENERAL NOTES

1. BOLD GRAPHICS INDICATE EXISTING ITEMS TO BE REMOVED OR RELOCATED. NOT LIMITED TO LIGHTING, SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES, STROBES, FIRE EXIT SIGNS, FIRE ALARMS, EMERGENCY LIGHTING, P.A. SYSTEM, SPRINKLERS AND ALL LIFE SAFETY EQUIPMENT.
2. IF FIRE ALARM DEVICES MUST BE RELOCATED, COORDINATE WITH LOCAL FIRE AUTHORITY.
3. ALL DAMAGE TO BE REPAIRED AND/OR PATCHED TO PROVIDE A SEAMLESS APPEARANCE IN SURFACE FINISH.
4. REPLACED & REMOVED ITEMS - UNUSED ITEMS TO BE STORED OR DESTROYED AS DIRECTED BY C.E.C. ENTERTAINMENT INC.

01 DEMOLITION REFLECTED CEILING PLAN

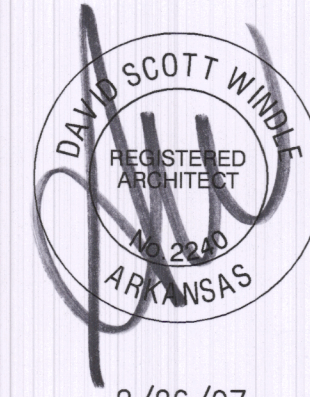
SCALE: 1/8"=1'-0"



01 DEMOILION FRONT ELEVATION
SCALE: 1/4"=1'-0"

DEMOLITION LEGEND	
----- DASHED LINES: WALL ITEMS TO BE REMOVED	----- SCREEN INDICATES: WALL ITEMS TO REMAIN

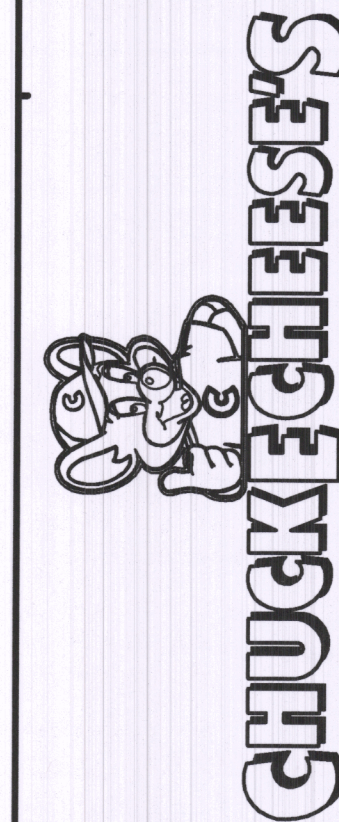
Carter-Burgess
CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
DALLAS, TEXAS 75247
PHONE: 214.920.8100
FAX: 214.688.0618



2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

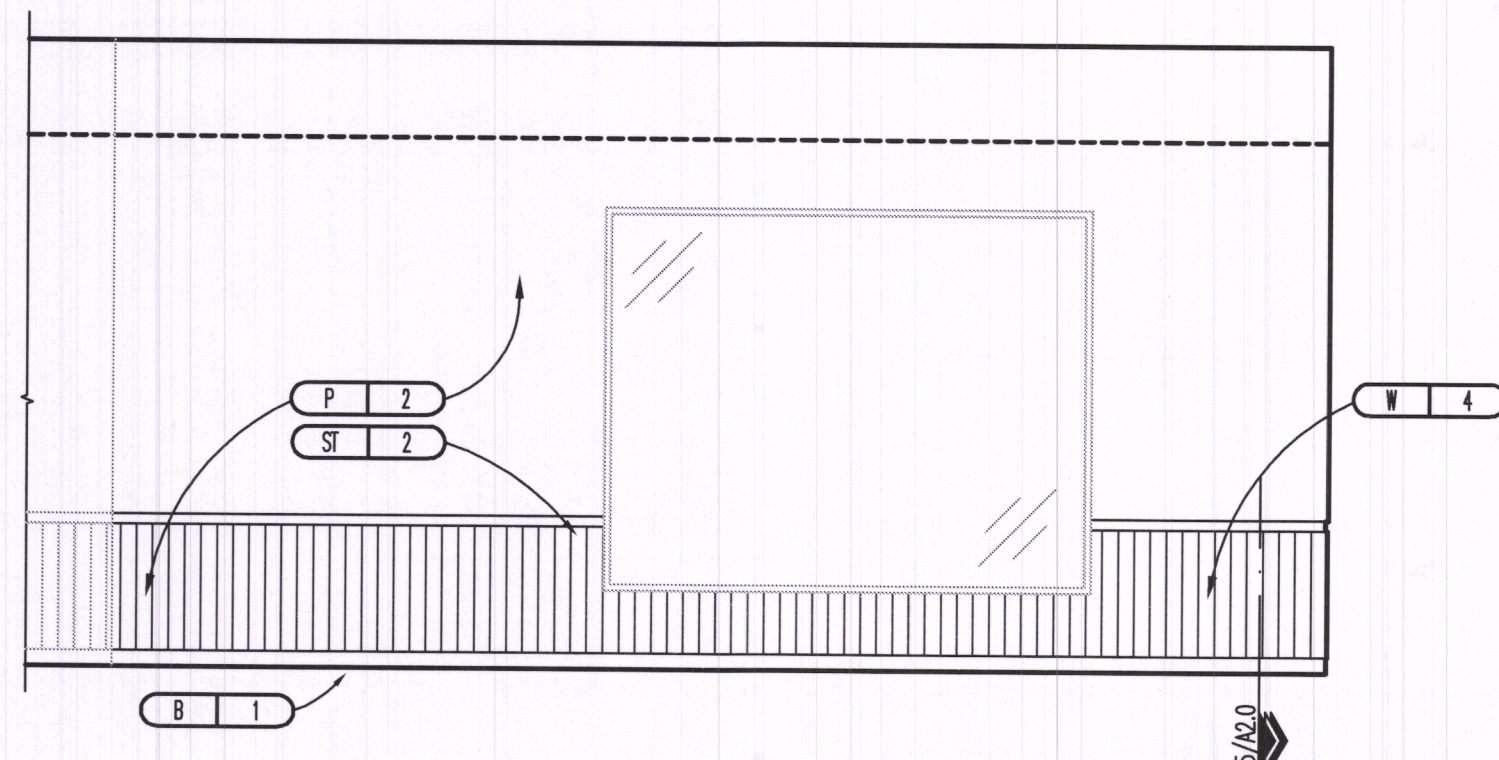
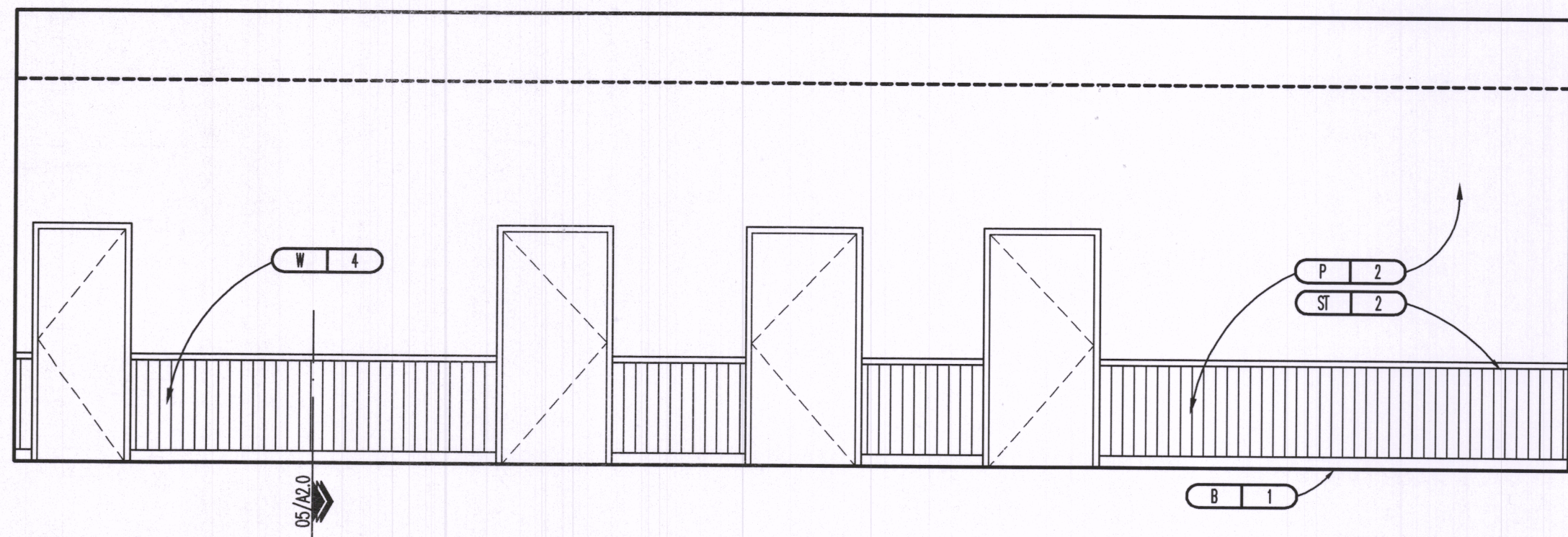
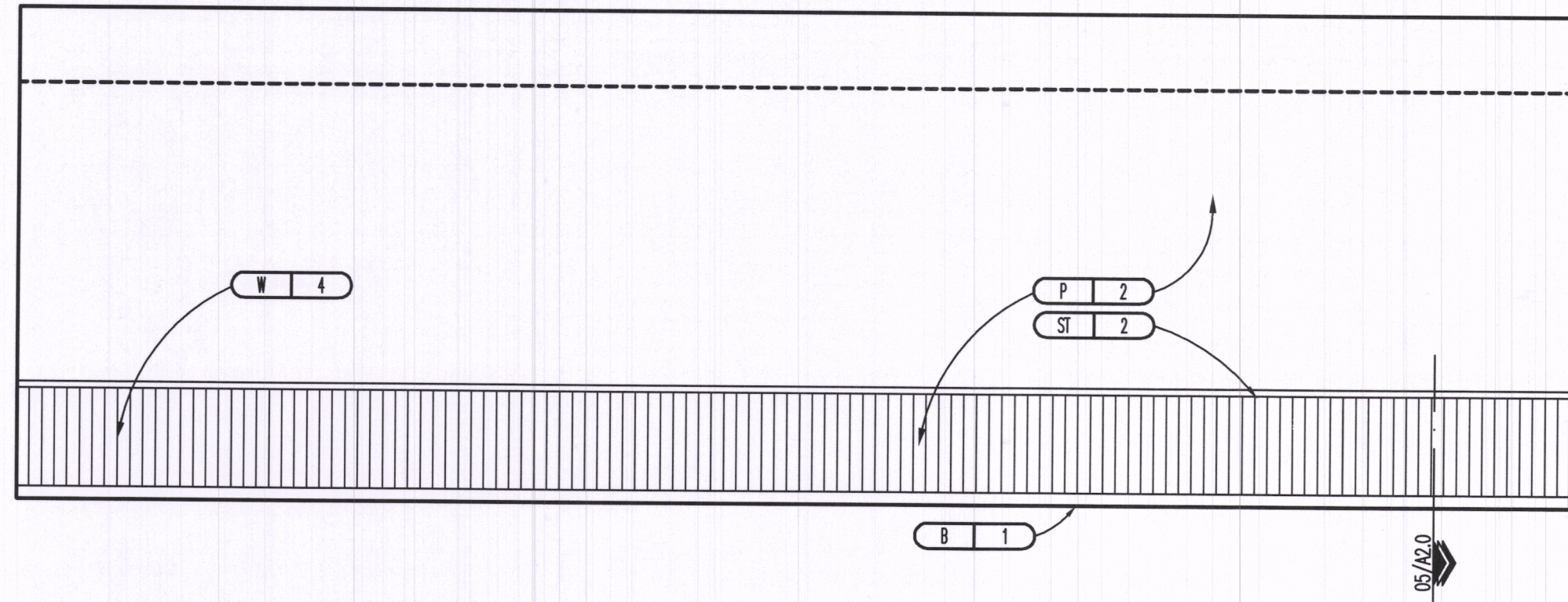
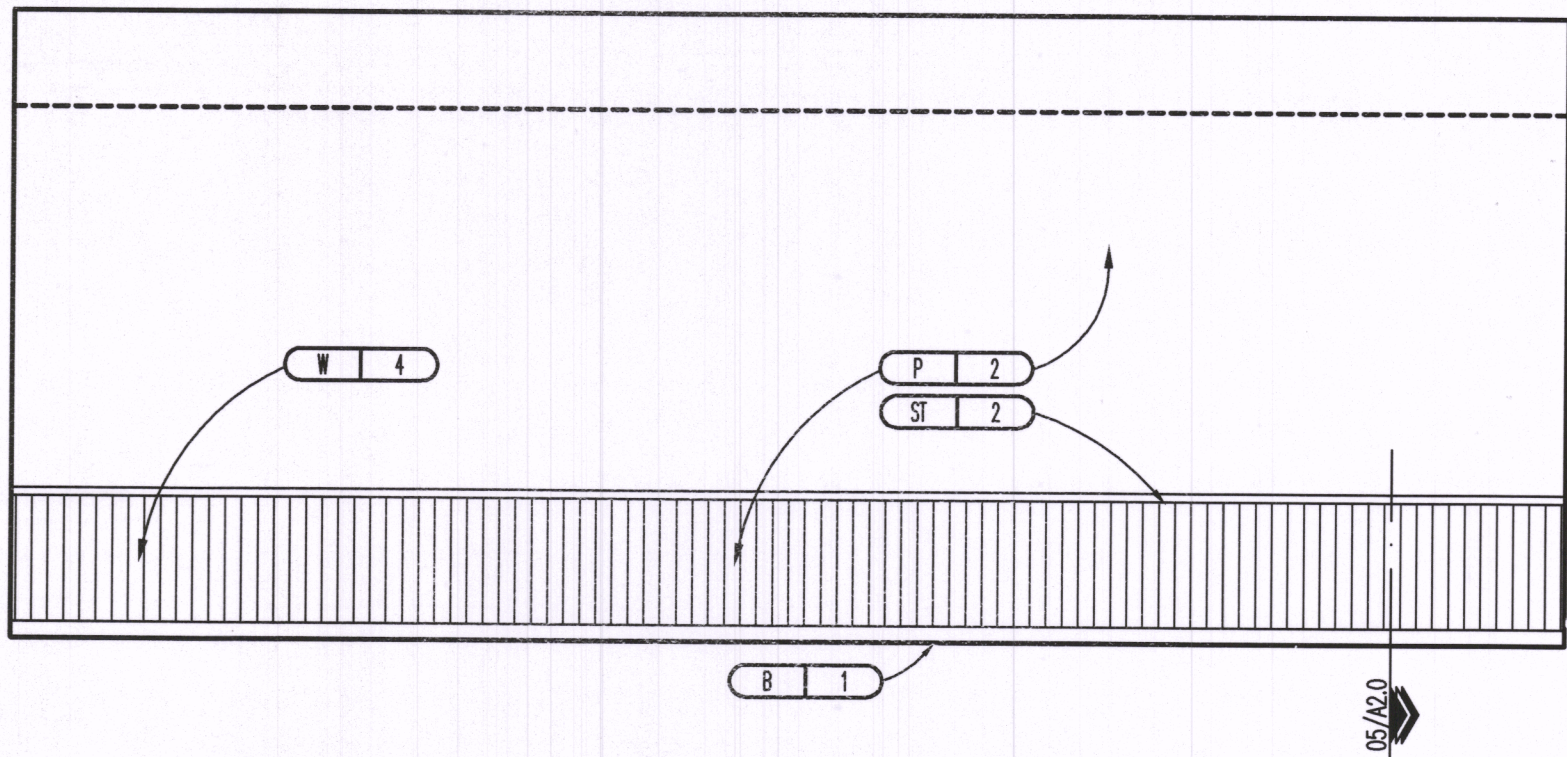
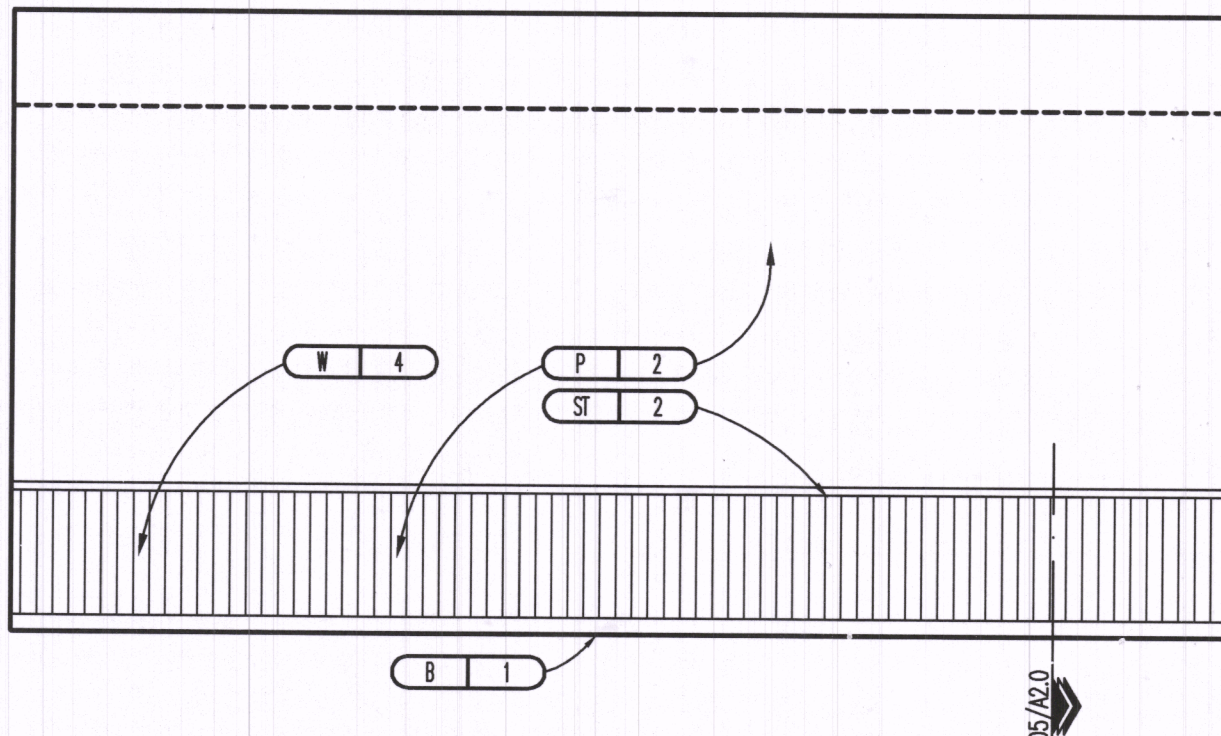
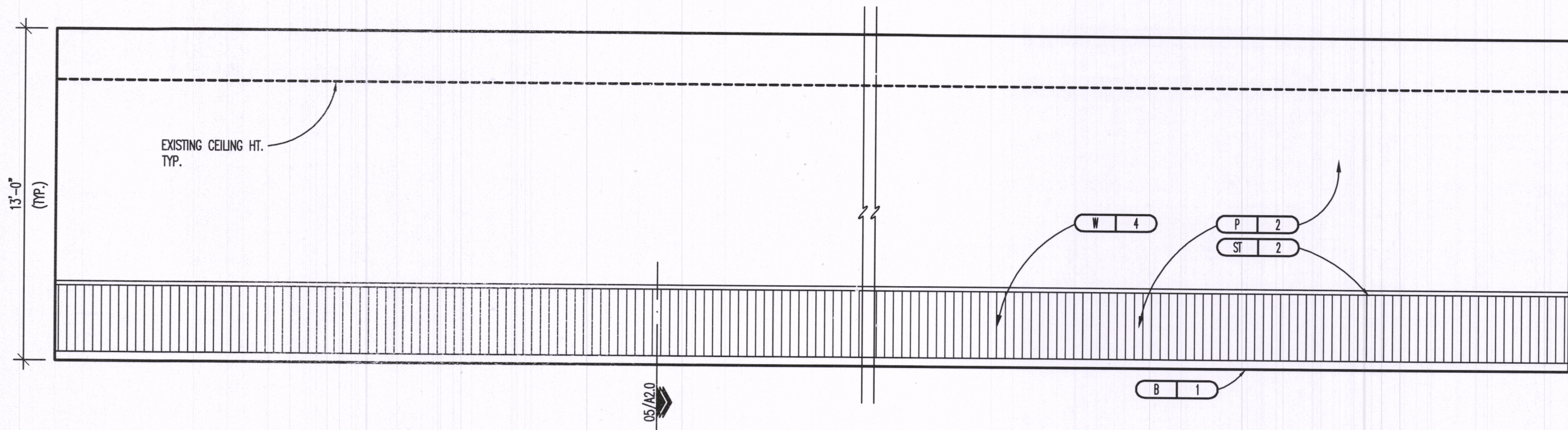


EXTERIOR ELEVATION

PROJECT NUMBER
024216.006

SHEET NUMBER
D2.0

ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 2/27/07



DECORATION SCHEDULE

#	DESCRIPTION	VENDOR
D19	Quad-Worhal	BWC
D100	Munch UnderwaterPhone Decor	BWC
D200	Family Picture, 36 x 53	BWC
D201	Showroom Pic, Play2B, 48 x 72	BWC
D203	Showroom Pic, Celebration2B, 48 x 72	BWC
D204	Showroom Pic, Family, 48 x 72	BWC
D205	Showroom Pic, Memories, 48 x 72	BWC
D208	Showroom Pic, Friends, 48 x 72	BWC
D211	Amboss of Fun, 36 x 60 (Vertical)	BWC
D212	King of Cool, 36 x 60 (Vertical)	BWC
D213	Titan of Tokens, 48 x 36 (Horizontal)	BWC
D215	Garden Fresh #1, 60 x 48	BWC
D217	Pizza Art, 60 x 48	BWC
D219	PBS Art, 44 x 48 (Square)	BWC
D221	3D Gold Token, 48" CL	BWC
D222	Gold Token, 24 x 24	BWC
D225	Oversized Tickets, 42 x 24	BWC
D225	Chuck E Portrait, 30 x 48 (V)	BWC
D226	Helen Portrait, 30 x 48 (V)	BWC
D227	Munch Portrait, 30x48 (V)	BWC
P4007	Marketing Light Boxes	SPT

Note: All decorations, new and used, are installed by contractor. Please locate per elevations, secure using glue (silicone) and anchors, along with cleats provided. If in doubt please hold for direction at walk thru inspection. When direction is centered on light wash it is expected that light location match plans.

ST	Entrance Sign (Hours of Operation)	Ajax
SS	Enter and Exit Logo Decals	Ajax
S10	Menu Light Bar	Prog
S14	Pizza Pans (New)	Prog
S15	Wet Floor Sign	SPT
S22	Restroom Directional	Prog
S23	Restroom Marquees (Men & Women)	Prog
S24	Restroom Ovals (Chuck & Helen)	Prog
S25	Kitchen Directional	Prog
S26	ADA Signs (Plastic)	SPT
S31	Logo (28" Cool Chuck)	Prog
S47	Exit Only Decal	Ajax
S48	Exit Only Sign	Ajax
S49	Occupancy Sign (Total)	Ajax
S50	Licensing Board	
S53	Delivery Sign	Ajax

Note: All signage, new or used, is installed by contractor. Please locate per elevations. Secure using glue (silicone) and anchors, along with cleats provided. If in doubt, please hold for direction at walk thru inspection. When direction is centered on light wash it is expected that light location match plans.

FINISH KEY

09900 PAINT/STAINS
ALL PRODUCTS LISTED ARE AVAILABLE THRU SHERWIN WILLIAMS.
ALL PRODUCTS LISTED SHALL COMPLY WITH STATE VOC GUIDELINES.

P-1 HOLLYBERRY RED USED ON EXPOSED METAL COLUMNS AND OLDER NONPRE-FINISHED FRONT DOORS (NOT FOR NEW ENTRY DOORS).
METAL PRIMER - SW KEN KROMIK UNIVERSAL PRIMER, B50Z SERIES METAL PAINT - CUSTOM FORMULA: BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING: 844 COLORANTS - QV-40, QR-32, THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT TW-16. SHERWIN-WILLIAMS COMMERCIAL STORES. EXTERIOR SUBSTRATES (STUCCO, DRYWALL, CMU BLOCK, BRICK AND METALS) MASONRY PRIMER - LOXON MASONRY PRIMER, A24W300. CMU PRIMER - HEAVY DUTY BLOCK FILLER, B42W46. BASE - EXTERIOR ACCENTS LATEX SEMI-GLOSS MATCHED TO HOLLYBERRY RED.
NOTE: ON OLDER REMODELED STORES SOME INTERIOR DOORS ALSO USE THIS COLOR IN THOSE CASES, PREP FOR RE-PAINT WITH SCUFF SAND (2 COATS)

P-2 WHITE WOOL SW1354 USED ON UPPER WALLS, FIRE EXIT DOORS AND FRAMES
PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES.
PAINT - MEDIUM ORANGE FEEL (VERIFY/ APPROVAL) DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B20W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL B31W200 SERIES. (TWO COATS) NOTE: ON FIRE EXIT DOORS AND FRAMES TINTED IN DTM ACRYLIC SEMI-GLOSS ENAMEL, WHITE WOOL SW1354 PAINT - B66-200 SERIES. (ONLY IN CASES OF RUST OR SLICK SURFACE SCUFF SAND AND USE KEN KROMIK UNIVERSAL PRIMER, B50Z SERIES.)

P-3 WINSOR GRAY SW1040 INTERIOR DOOR FRAMES
PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (SCUFF SAND AND PRIMER ONLY AS REQUIRED)

P-4 SAND SW2059 EXTERIOR STUCCO, DRYWIT, BRICK, CMU BLOCK AND METALS.
MASONRY PRIMER - SW LOXON MASONRY PRIMER, A24W300. MASONRY PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
CMU BLOCK - HEAVY DUTY BLOCK FILLER, B42W46. CMU PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
METAL PRIMER - KEN KROMIK UNIVERSAL METAL PRIMER, B50Z SERIES ON METAL FLASHING.
PAINT - DTM B66W201

P-5 MORNING HAZE
CUSTOM MATCH TO MARLITE OF SAME NAME USED ONLY ON REMODELS, NOT FOR NEW CONSTRUCTION.
PRIMER - XIM PRIMER (1 COAT)
PAINT - PROMAR 200 ALKYD SEMI-GLOSS ENAMEL, B34W200 B31W201-MORNING HAZE, B1-36+1, Y3-22+1, R2-7, N1-5

P-6 CORISCAN PURPLE SW1825 ACCENT GYPSUM WALL
GYPSUM PRIMER - PREPRITE 200 LATEX WALL PRIMER, B28W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)

P-7 HAZE
CUSTOM MATCH TO ARMSTRONG, CEILING GRID AND TILE OF SAME NAME. USED ON REMODELS ONLY, NOT FOR NEW CONSTRUCTION. PAINT: B30 W 401, N1-2V, P1-4

P-8 STONES THROW USED ON CEILING OF STUDIO "C" SHOW (REMODELS ONLY)
PAINT - PROMAR 200 INTERIOR LATEX FLAT PAINT, B30W200 SERIES.

P-9 FLAT BLACK USED ON INTERIOR BACKWALL OR ANIMATED SHOW
PAINT - PROMAR 400 INTERIOR LATEX BLACK, B30B400 SERIES.

P-10 FORTUNE COOKIE SW1344 INTERIOR GYPSUM BOARD
PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)

P-11 CANOE SW2043 USED ON EXTERIOR DRYWIT.
PRIMER - SW LOXON MASONRY PRIMER, A24W300. PAINT - FORMULA BASE A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS) CANOE SW2043 TO BE USED ON EXTERIOR CMU.
PRIMER - SW HEAVY DUTY BLOCK FILLER, B42W46. BLOCK MUST BE FILLED TO BE PIN HOLE FREE.
PAINT - FORMULA BASE A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS)

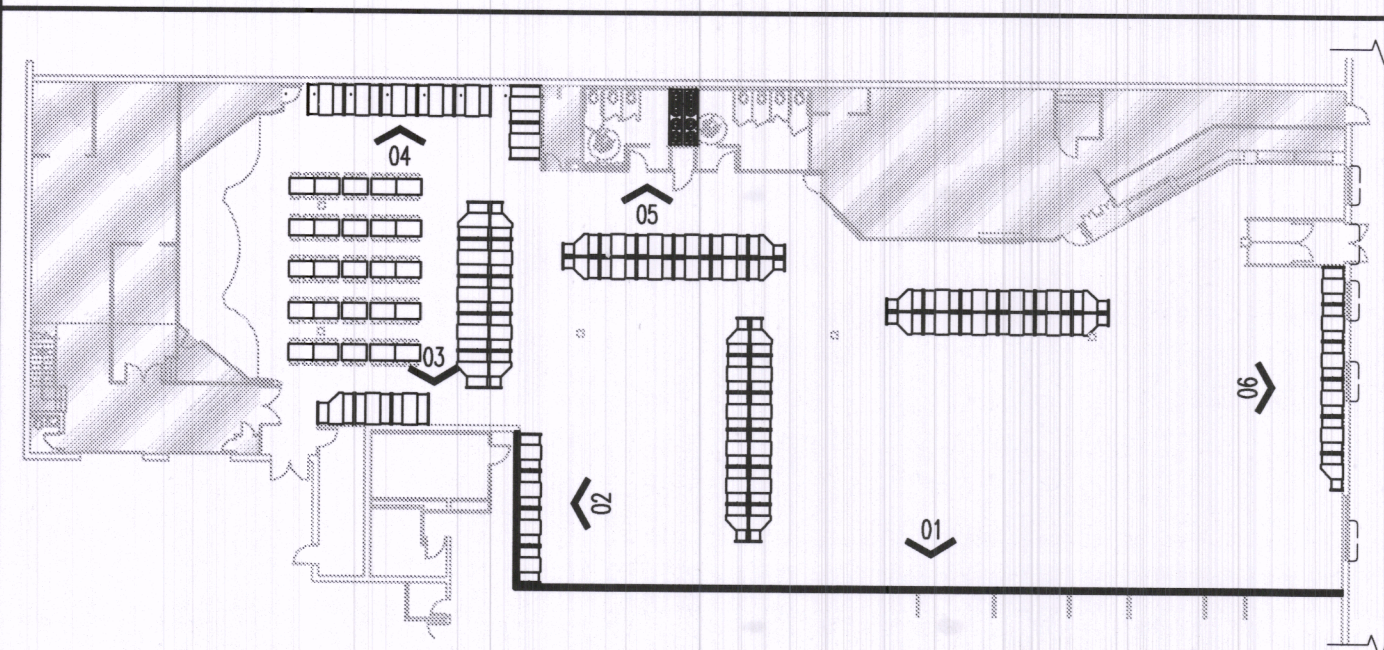
P-12 AUGUST MOON SW2119 USED ON EXTERIOR STUCCO, DRYWIT, BRICK, CMU BLOCK AND METALS.
MASONRY PRIMER - SW LOXON MASONRY PRIMER, A24W300. MASONRY PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
CMU BLOCK - HEAVY DUTY BLOCK FILLER, B42W46. CMU PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
METAL PRIMER - KEN KROMIK UNIVERSAL METAL PRIMER, B50Z SERIES ON METAL FLASHING.
PAINT - DTM B66W201

ST2 INTERIOR OAK USED ON CHAIR CAP AND MISC.
1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN, S64 SERIES. (CHERRY) S64R6 CHERRY WITH 4 OZ. (844 RED OXIDE)
2ND COAT - SHERWIN WILLIAMS SHERWOOD VINYL SEALER 24%, T67F3
3RD COAT - SHERWIN WILLIAMS SHERWOOD CAB- ACRYLIC LACQUER, T75C15
4TH COAT - SAME AS THIRD COAT

09972 MARLITE WALL PANELS

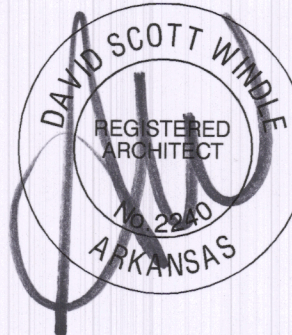
W-4 1/4" MARLITE NO. 5446-S2V 'MORNING HAZE'
W-5 DISPLAY WALL - NO.2764 'CRYSTAL GREY'

KEY PLAN



Carter & Burgess, Inc.

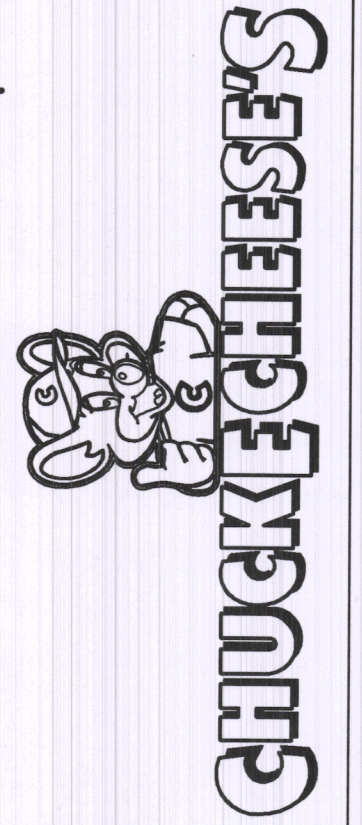
CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
DALLAS, TEXAS 75247
PHONE: 214.920.8100
FAX: 214.688.0618



2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



INTERIOR ELEVATIONS

PROJECT NUMBER

024216.006

SHEET NUMBER

A2.1

ORIGINAL ISSUE DATE: 02/26/07
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EXPANSION

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CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
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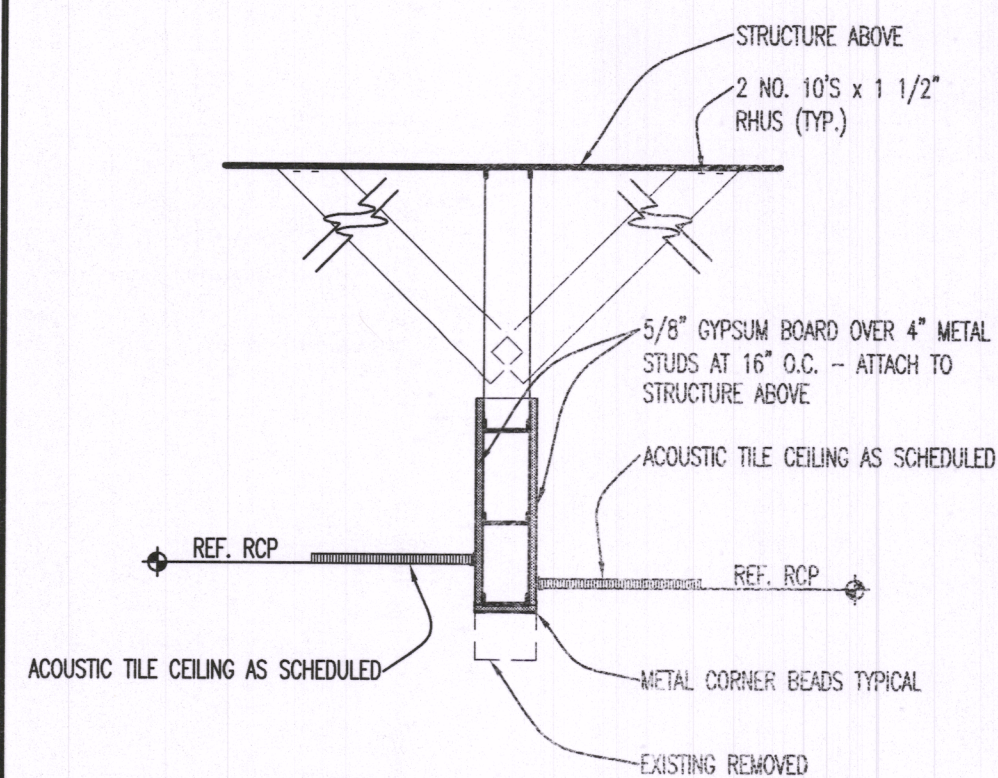
REFLECTED CEILING PLAN



SIGNAGE/ANNING NOTE:
C.C. RESPONSIBLE FOR COORDINATION
AND VERIFICATION OF POWER AND
SIGNAGE/ANNINGS PRIOR TO
INSTALLATION.

01 NEW REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"



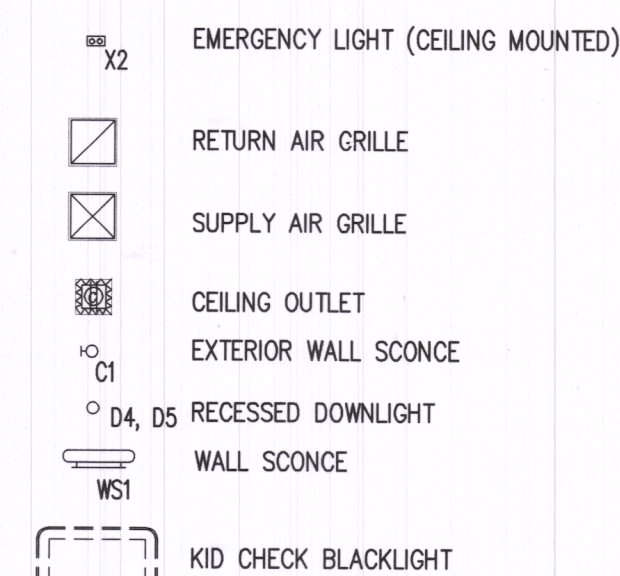
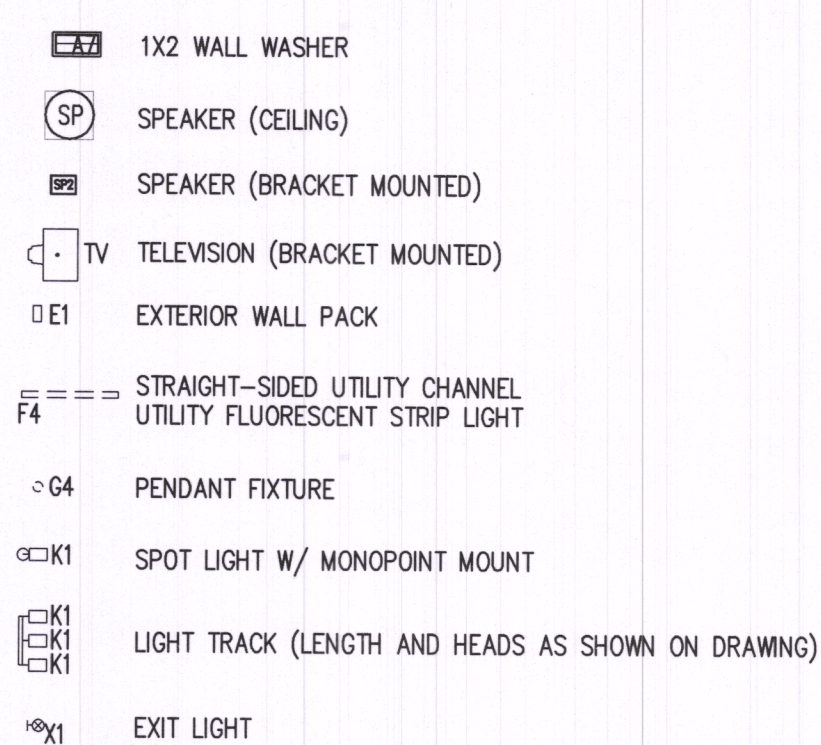
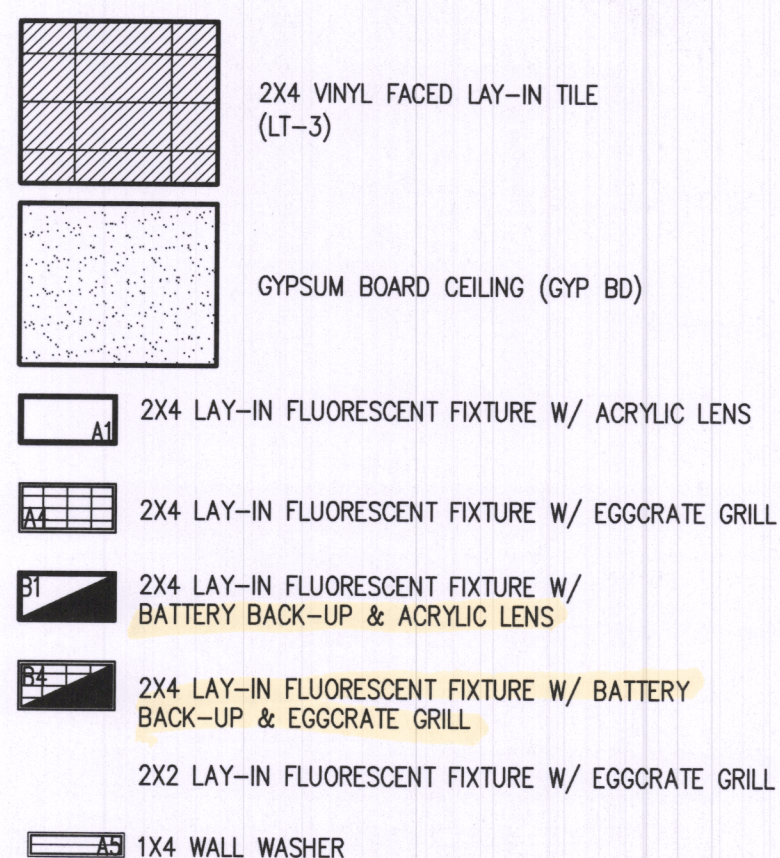
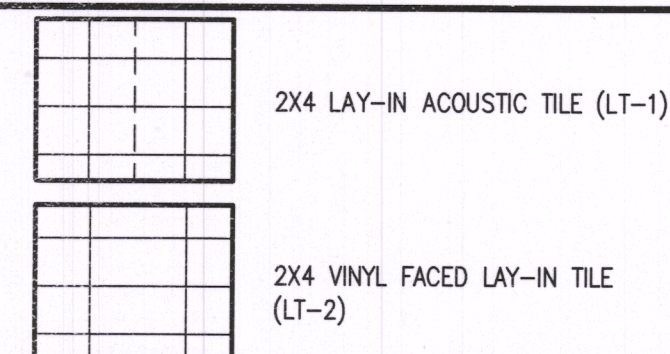
02 HEADER DETAIL

SCALE: 3/4"=1'-0"

NOTES

1. NO FIXTURES, GRILLES, SPEAKERS, SPRINKLER HEADS, ETC. SHALL TOUCH THE CEILING T'S OR SHADOW LINE; CENTER IN PANEL.
2. PAINT ALL GRILLES AND RECESSED SPEAKERS TO MATCH CEILING GRID.
3. EXIT SIGNAGE TO BE INSTALLED PER OSSC 1011.
4. CEILING GRID INSTALLATION SHALL BE PER SECTION 9.6 OF ASCE 7-02 AND CISCA GUIDELINES FOR SEISMIC ZONES 3-4.
5. RELOCATE EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING TO NEW CEILING HEIGHT.
6. RELOCATE EXISTING MECHANICAL DIFFUSERS (SUPPLY/RETURN) AND ASSOCIATED DUCTING TO NEW CEILING HEIGHT.

RCP LEGEND



FINISH KEY

- 09510 ACOUSTICAL LAY-IN CEILINGS
- LT-1 ARMSTRONG #1761HA, FINE FISSURED SECOND LOOK II 24" x 48" x 3/4" WITH XL HA 15/16" EXPOSED TEE SYSTEM
- LT-2 ARMSTRONG #670 VINYL FACED G.L.P. 24" x 48" x 1/2" WITH PRELUDE XL WHITE GRID
- LT-3 LT-2 PAINT TO MATCH LT-1 GRID TO MATCH CEILING TILE COLOR IN PUBLIC AREAS

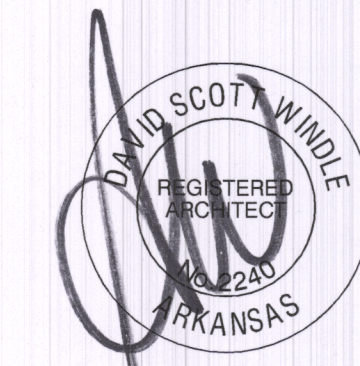
PROJECT NUMBER
024216.006

SHEET NUMBER
A1.2

ORIGINAL ISSUE DATE: 02/26/07
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Carter-Burgess

CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
DALLAS, TEXAS 75247
PHONE: 214.920.8100
FAX: 214.688.0618



2/26/07

EXPANSION

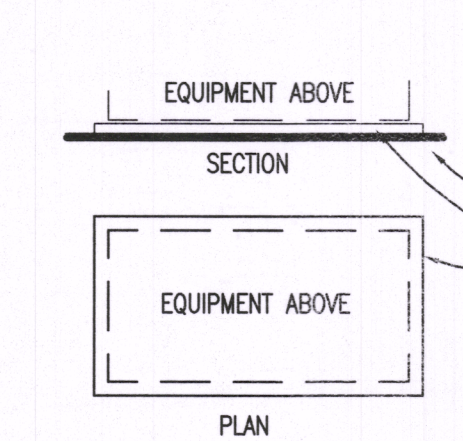
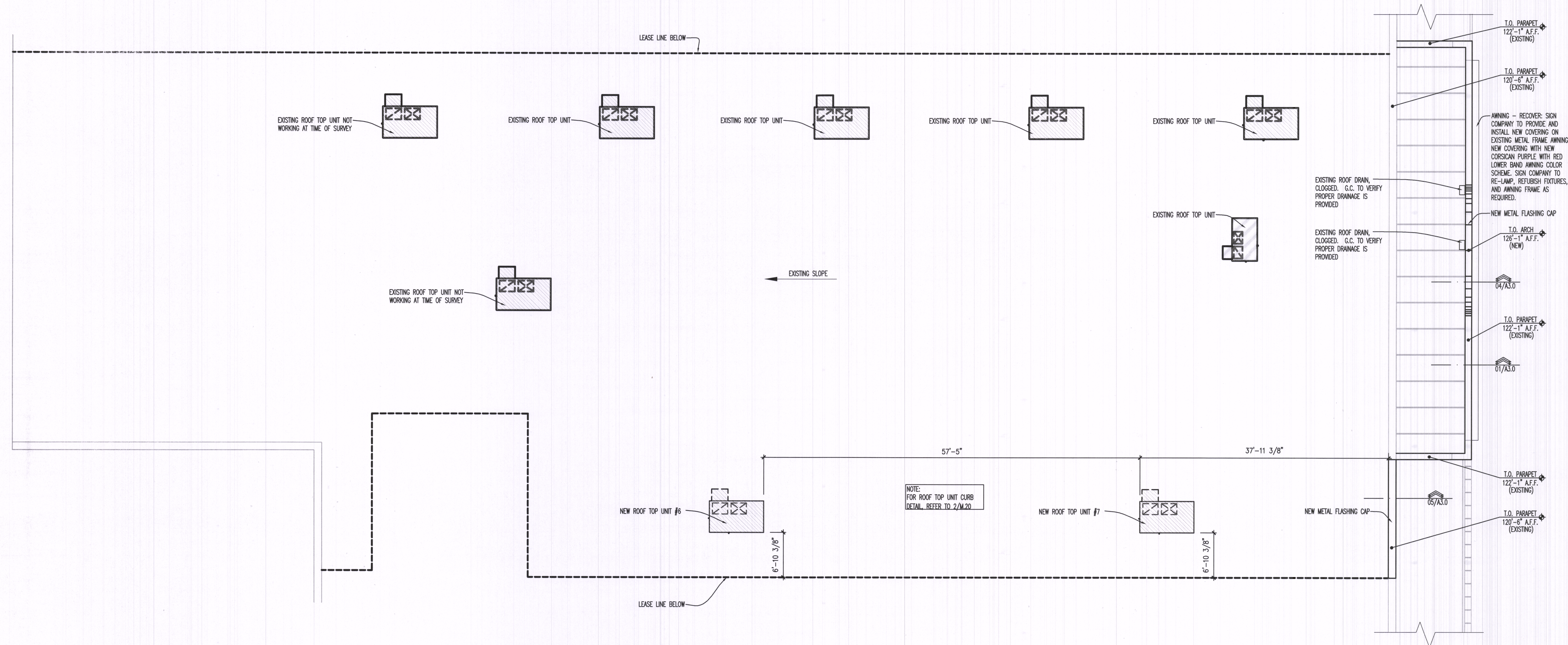
STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
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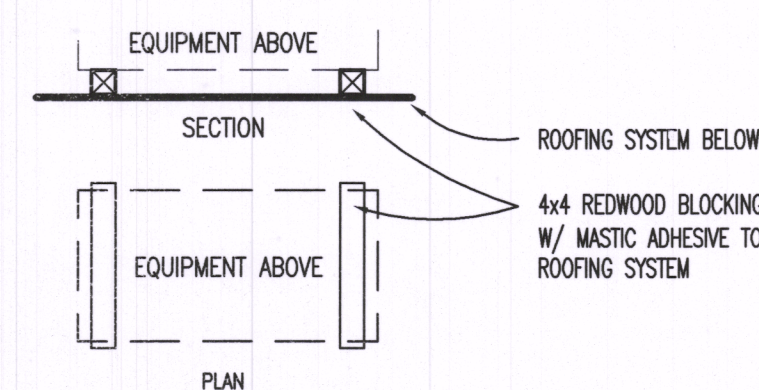
ROOF PLAN

01 ROOF PLAN

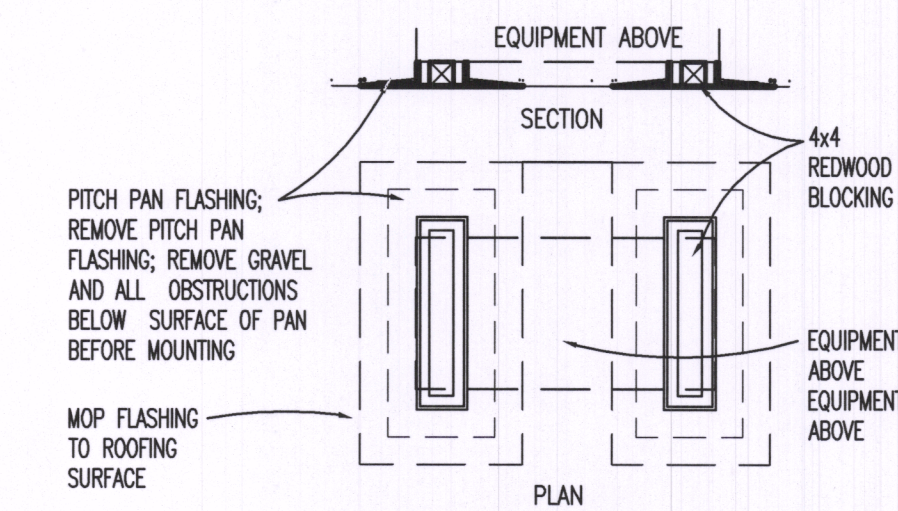
SCALE: 1/8"=1'-0"



MEMBRANE ROOF SYSTEM



GRANULAR SURFACE ROOF SYSTEM



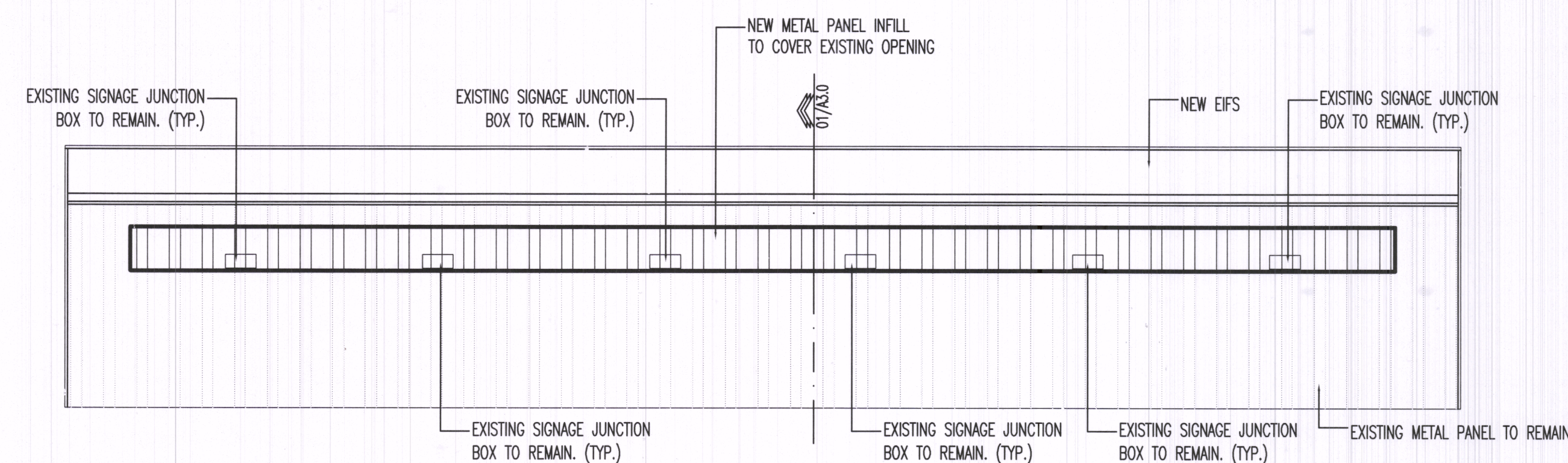
TAR, FELT, & GRAVEL ROOF SYSTEM

02 ROOF EQUIP. SUPPORT

SCALE: 3/8"=1'-0"

02 EXISTING EXTERIOR PARAPET PANEL

SCALE: 3/16"=1'-0"

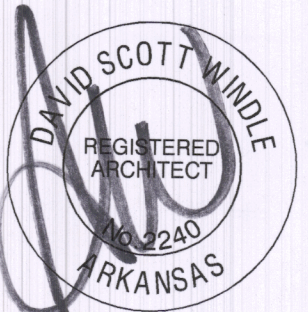


PROJECT NUMBER
024216.006

SHEET NUMBER

A1.3

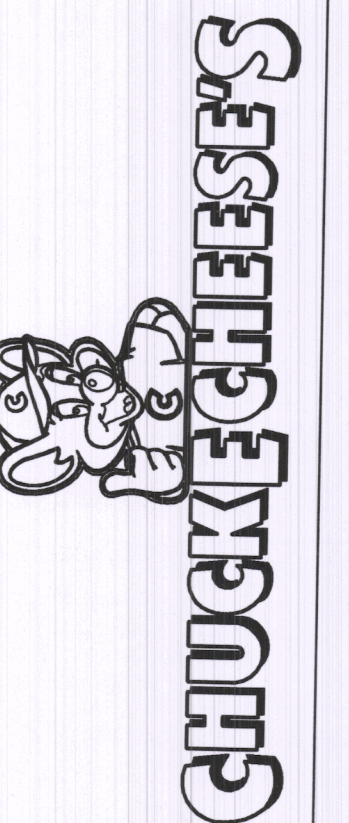
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EXPANSION

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4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



01 FLOOR PLAN

SCALE: 1/8"=1'-0"

FURNISHING NOTE:
1. TABLE TOP SPLASH REQUIRED LOCATIONS WITHOUT CENTER BOOTH DIVIDER WALL.
2. BOOTH VENDOR TO VERIFY EXACT COUNT AND SEATING CONFIGURATIONS WITH OWNER PRIOR TO MANUFACTURE.

SEATING COUNT (NEW)	KEYED NOTES
SHOWROOMS 187	1. PROVIDE NEW FURNITURE AND TABLES AS SPECIFICATION. REFER TO SHEET A1.5 FOR FURNISHING PLAN.
KIDDE 100	2. AREA NOT BE AFFECTED BY CONSTRUCTION.
SKILLS 89	3. NEW LAVATORY AND COUNTER. REFER TO 02A1.0 SIMILAR.
TOTAL SEATING 376	

WALL LEGEND	GENERAL NOTES
SOLID LINES: NEW WALL/ITEMS	1. ALL REPAIR AND PATCH WORK SHALL MATCH ADJACENT SURFACES AND HAVE NO VISIBLE SEAMS.
DASHED LINES: EXISTING WALL/ITEMS	2. DO NOT PAINT OVER SECURITY CAMERAS, SECURITY FIRE ALARM BELLS AND ASSOCIATED PUMPS, FURNITURE AND OTHER LIFE SAFETY FEATURES. DO NOT PAINT OVER ELECTRICAL AND PLUMBING LABELS.
EXIT PATH	3. ALL WOOD AND RUBBER BASE, WAINSCOT AND WOOD CHAIR RAILS TO BE LEFT AS-IS UNLESS NOTED OTHERWISE.
SCREEN INDICATES WALL/ITEMS TO REMAIN	4. NEW AND RELOCATED ELECTRICAL ITEMS ARE SHOWN IN BOLD GRAPHICS ON PLANS; EXISTING ELECTRICAL ITEMS ARE SHOWN IN LIGHT GRAPHICS ON PLANS.
CLEAR FLOOR EXIT SPACE	5. INSTALL NEW FLOOR POWER, PHONE AND AIR OUTLETS AS DETERMINED BY GAMES. RELOCATE OUTLETS FROM UNDER GAMES AS REQUIRED. AFTER GAMES INSTALL IS COMPLETE, REPLACE ANY EXPOSED BROKEN FLOOR OUTLET COVERS.
	6. CHERRY WOOD STAIN SPEC. USED ON CHAIR RAILS HALF-WALL CAPS AND MISC. 1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN 994 SERIES (CHERRY) SHERWOOD WIPING STAIN 994 SERIES (CHERRY) 2ND COAT - SHERWIN WILLIAMS SHERWOOD VINYL SEALER 24% T67F3. 3RD COAT - SHERWIN WILLIAMS SHERWOOD CAB - ACRYLIC LACQUER T75C15. 4TH COAT - SAME AS THIRD COAT.

PROJECT NUMBER
024216.006

SHEET NUMBER
A1.4

ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 2/27/07



2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.

CENTRAL SHOPPING CENTER

1200 WALDRON

FORT SMITH, AR. 72903

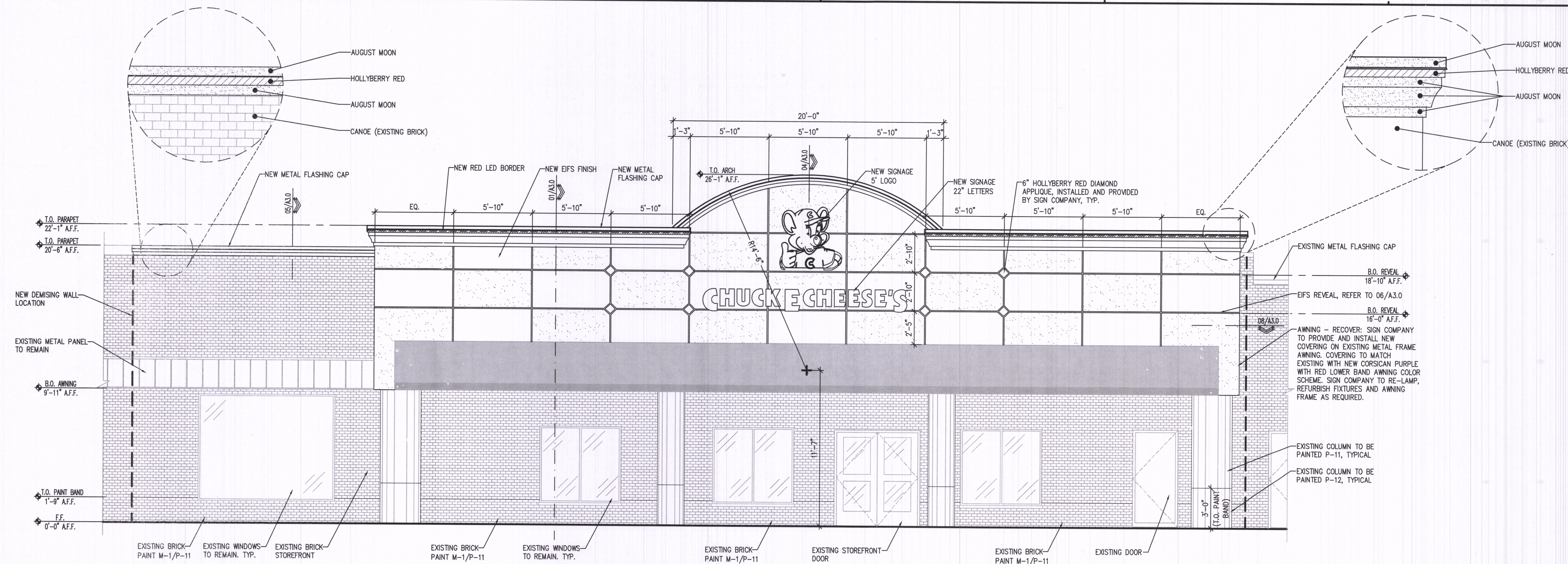
CEC ENTERTAINMENT, INC.

4441 WEST AIRPORT FREEWAY

IRVING, TEXAS 75062



EXTERIOR AND INTERIOR ELEVATIONS

01 NEW FRONT ELEVATION
SCALE: 1/4"=1'-0"

FINISH SCHEDULE

09900 PAINT/STAINS
ALL PRODUCTS LISTED ARE AVAILABLE THRU SHERWIN WILLIAMS.
ALL PRODUCTS LISTED SHALL COMPLY WITH STATE VOC GUIDELINES
P-1 HOLLYBERRY RED USED ON EXPOSED METAL COLUMNS AND OLDER NONPRE-FINISHED FRONT DOORS (NOT FOR NEW ENTRY DOORS).
METAL PRIMER - SW KEN KROMIK UNIVERSAL PRIMER, B502 SERIES, METAL PAINT - CUSTOM FORMULA: BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING: 844 COLORANTS - QV-40, QR-32, THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT TW-16, SHERWIN-WILLIAMS COMMERCIAL STORES. EXTERIOR SUBSTRATES (STUCCO, DRYVIT, CMU BLOCK, BRICK AND METALS) MASONRY PRIMER - LOXON MASONRY PRIMER, A24-300, CMU PRIMER - HEAVY DUTY BLOCK FILLER, B42W46, BASE - EXTERIOR ACCENTS LATEX SEMI-GLOSS MATCHED TO HOLLYBERRY RED.
NOTE: ON OLDER REMODELED STORES SOME INTERIOR DOORS ALSO USE THIS COLOR IN THOSE CASES, PREP FOR RE-PAINT WITH SUFF SAND (2 COATS)
P-4 SAND SW2059 EXTERIOR STUCCO, DRYVIT, BRICK, CMU BLOCK AND METALS.
MASONRY PRIMER - SW LOXON MASONRY PRIMER, A24W300.
MASONRY PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
CMU BLOCK - HEAVY DUTY BLOCK FILLER, B42W46.
CMU PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
METAL PRIMER - KEN KROMIK UNIVERSAL METAL PRIMER, B502 SERIES ON METAL FLASHING.
PAINT - DTM B66W201
P-11 CANOE SW2043 USED ON EXTERIOR DRYVIT.
PRIMER - SW LOXON MASONRY PRIMER, A24W300.
PAINT - FORMULA BASE A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS)
CANOE SW2043 TO BE USED ON EXTERIOR CMU.
PRIMER - SW HEAVY DUTY BLOCK FILLER, B42W46. BLOCK MUST BE FILLED TO BE PIN HOLE FREE.
PAINT - FORMULA BASE A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS)
P-12 AUGUST MOON SW2119 USED ON EXTERIOR STUCCO, DRYVIT, BRICK, CMU BLOCK AND METALS.
MASONRY PRIMER - SW LOXON MASONRY PRIMER, A24W300
MASONRY PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
CMU BLOCK - HEAVY DUTY BLOCK FILLER, B42W46.
CMU PAINT - A-100 EXTERIOR LATEX SATIN, A82 SERIES. (TWO COATS MINIMUM)
METAL PRIMER - KEN KROMIK UNIVERSAL METAL PRIMER, B502 SERIES ON METAL FLASHING.
PAINT - DTM B66W201

FINISH LEGEND

	EIFS-1 P-4 MAIN SAND (BUCKSKIN #449)-INTEGRAL COLOR
	EIFS-1 P-11 MAIN ACCENT CANOE
	EIFS-1 P-12 PARAPIT AUGUST MOON
	M-1 P-11 MASONRY CANOE
	EIFS-1 P-1 PARAPIT HOLLYBERRY RED

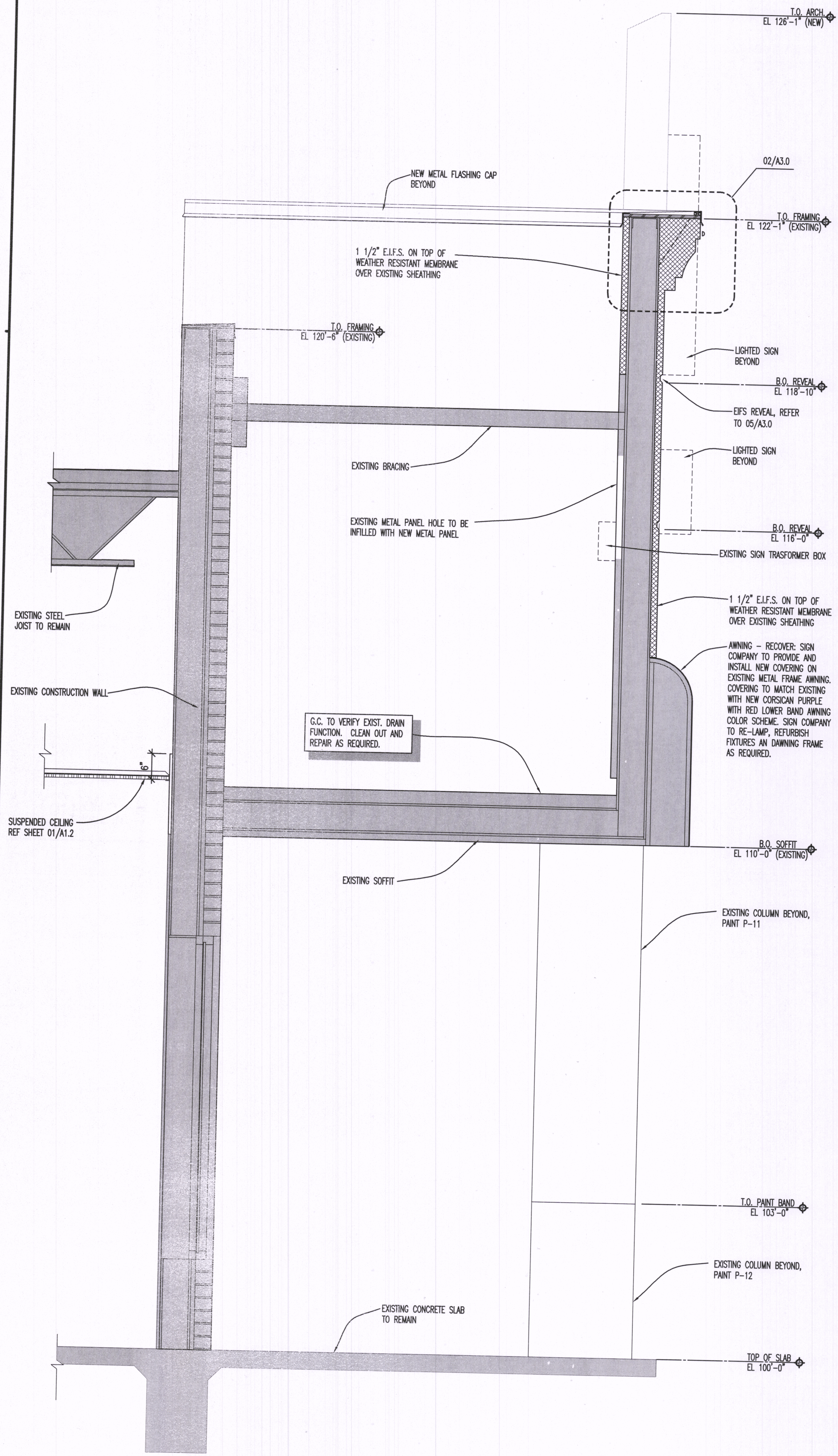
PROJECT NUMBER

024216.006

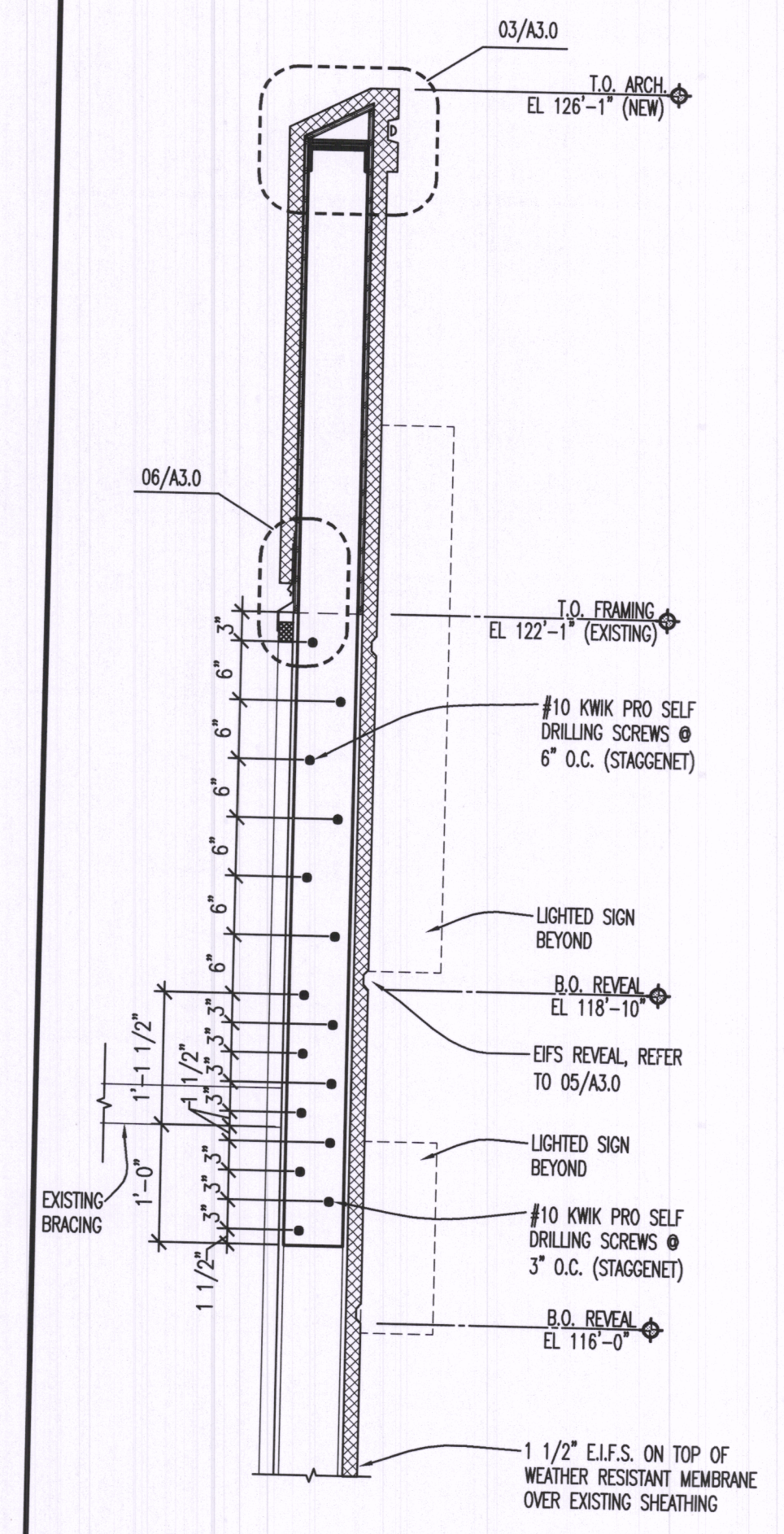
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A2.0

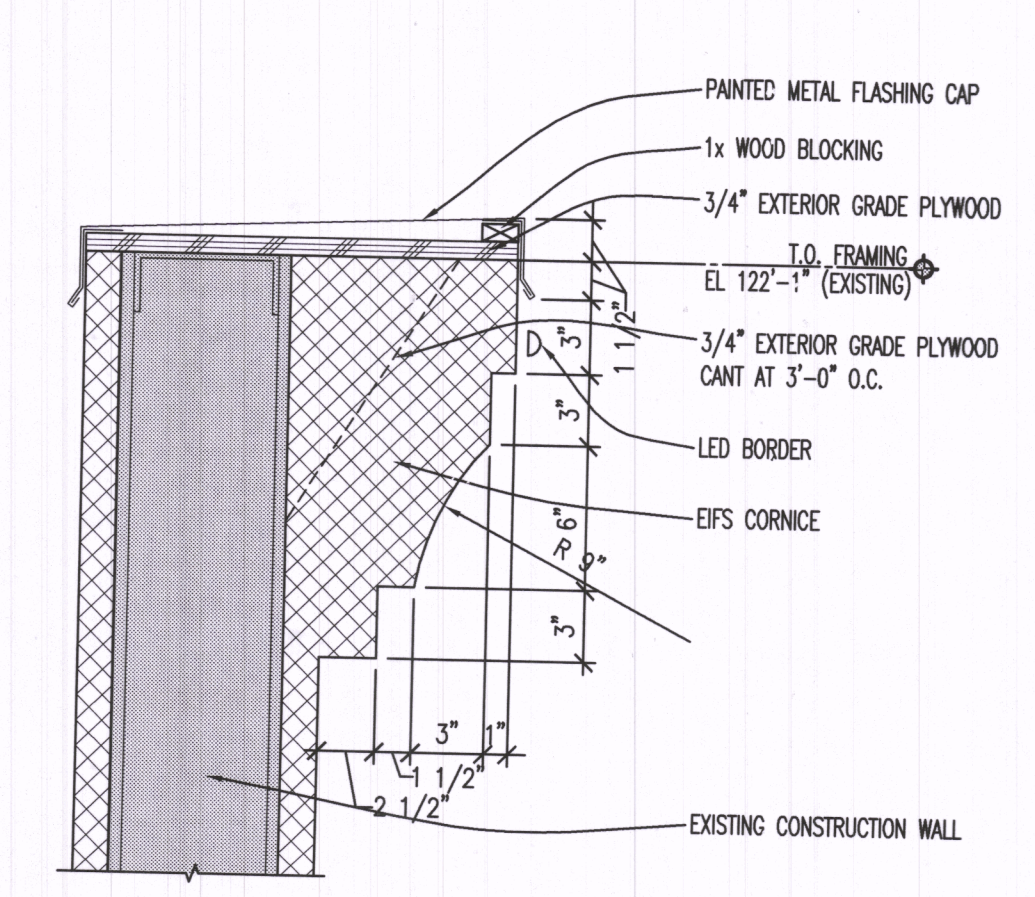
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DATE OF THIS PRINTING: 2/27/07



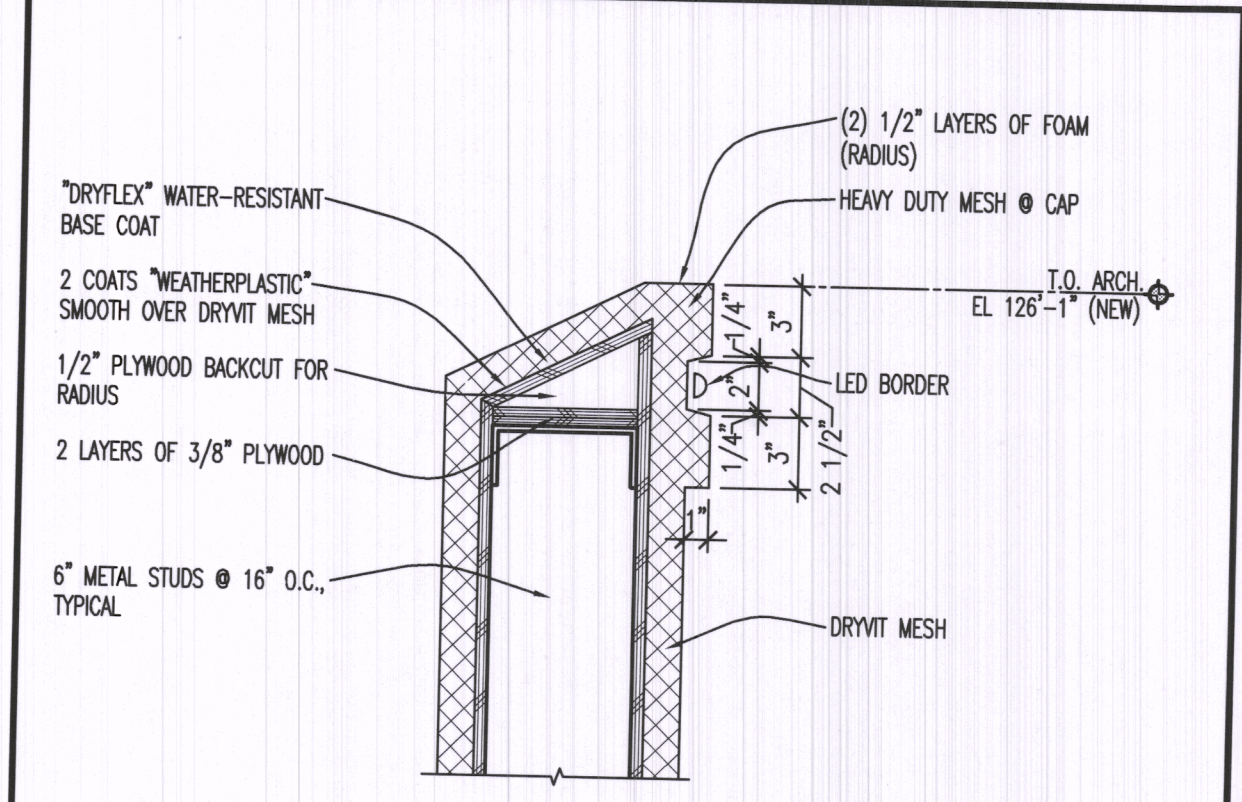
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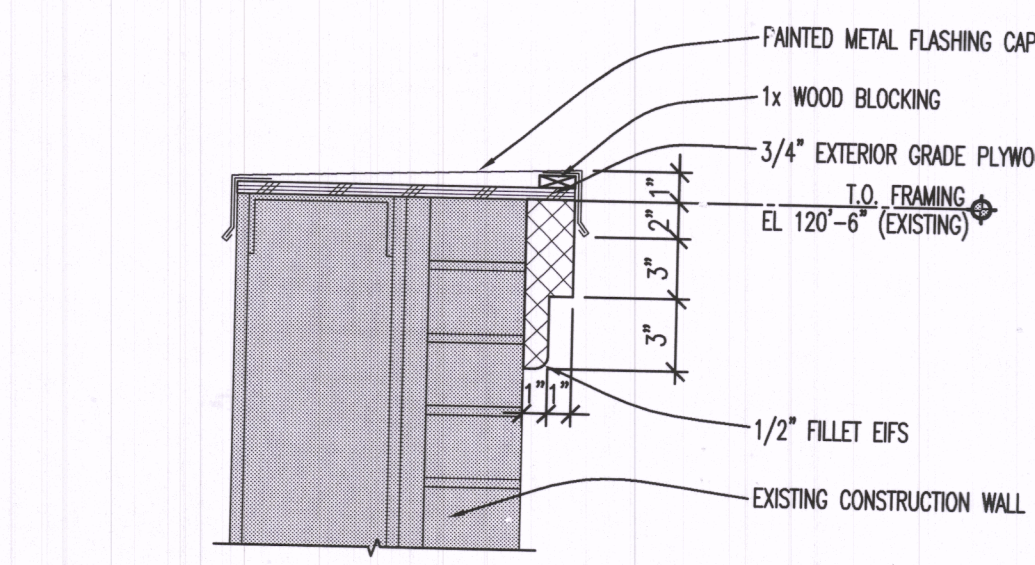
03 PARAPET DETAIL
SCALE: 1 1/2"=1'-0"



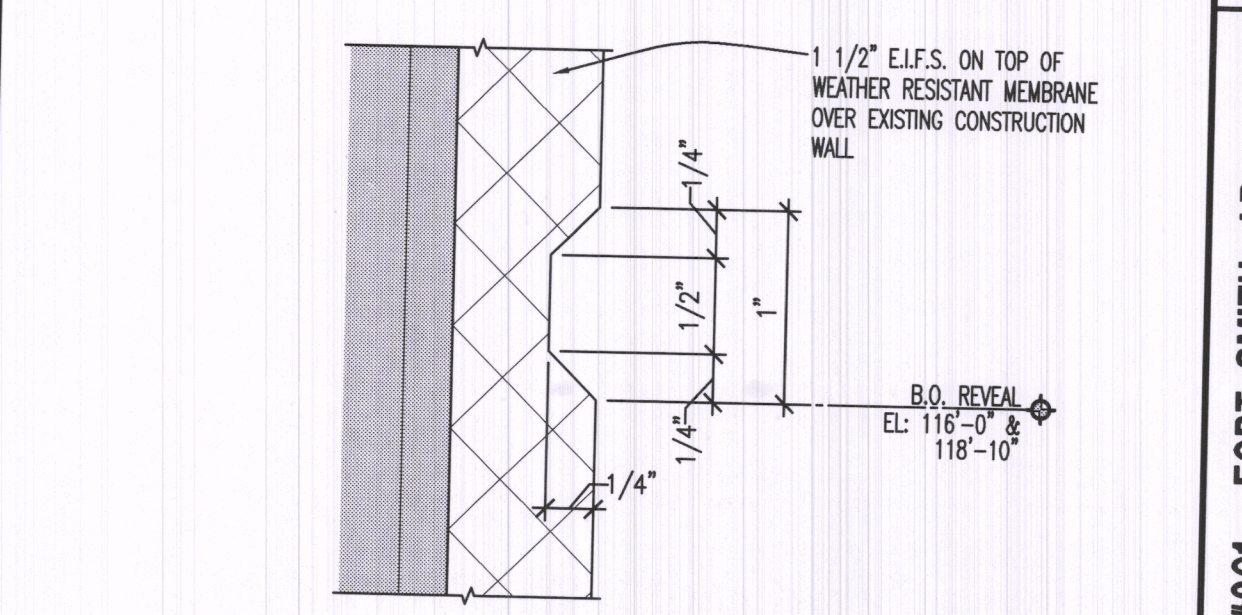
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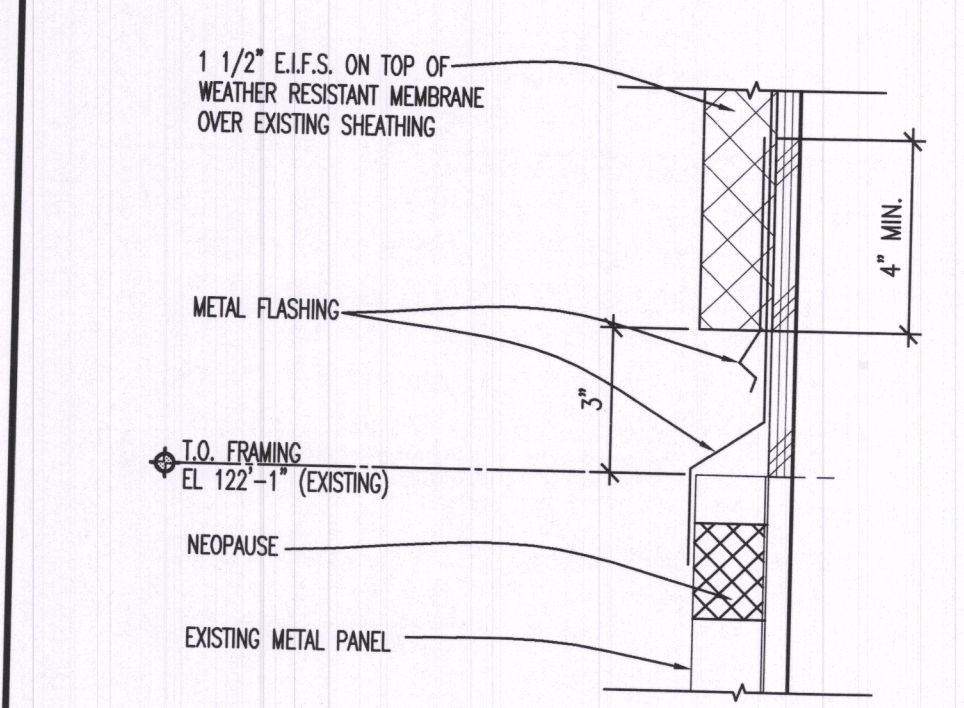
03 PARAPET DETAIL
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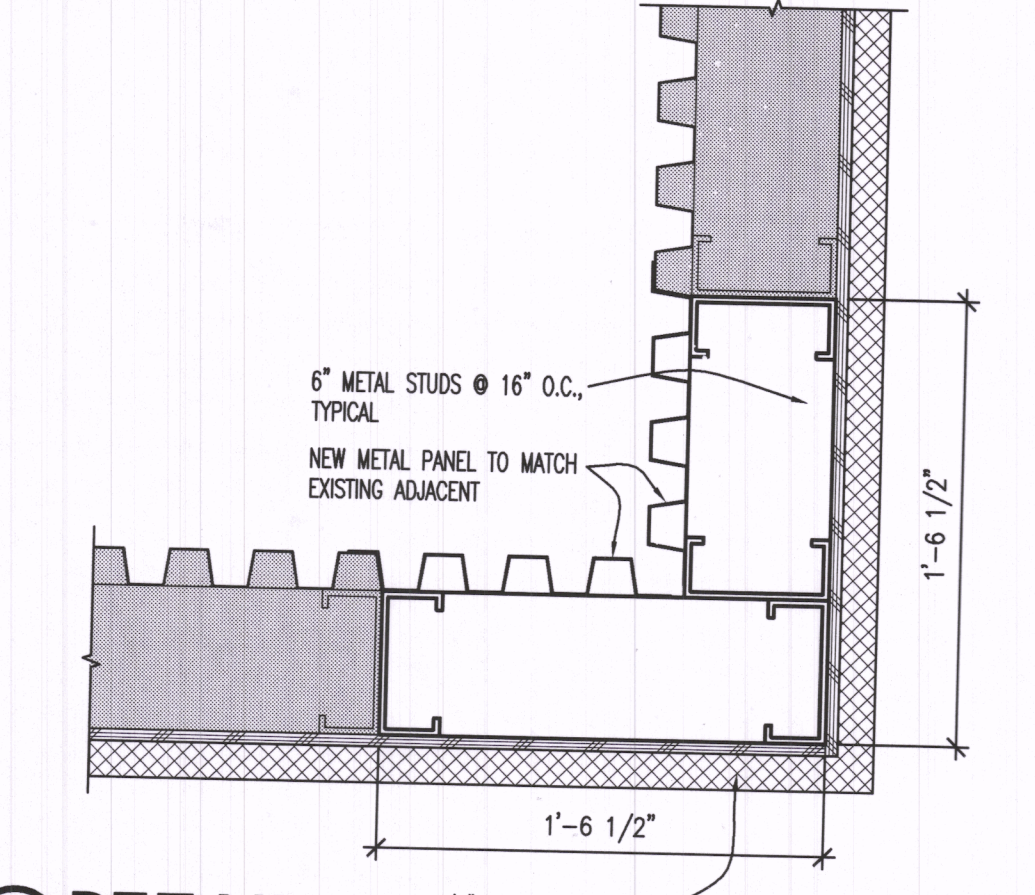
05 PARAPET DETAIL
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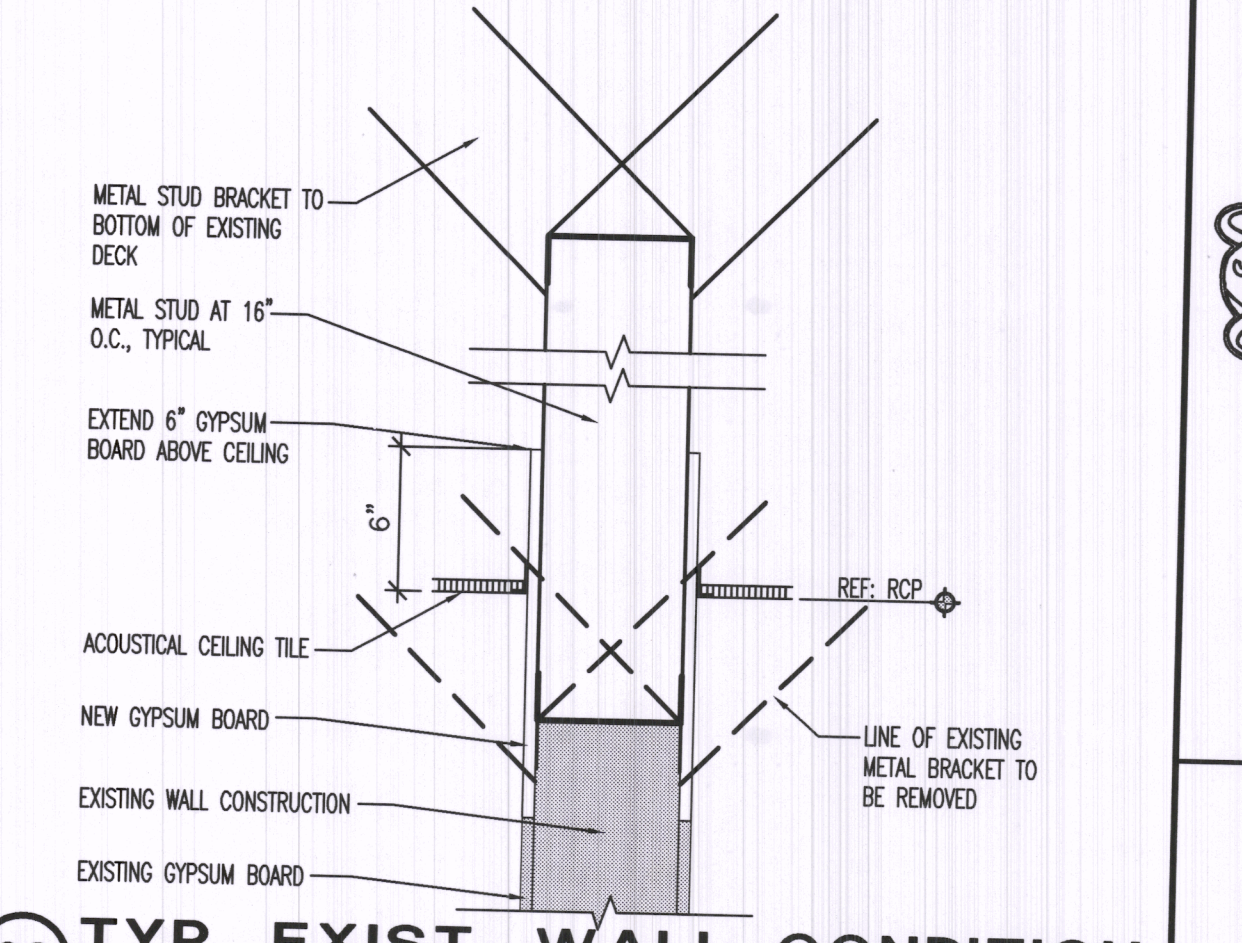
06 EIFS REVEAL
SCALE: 6"=1'-0"



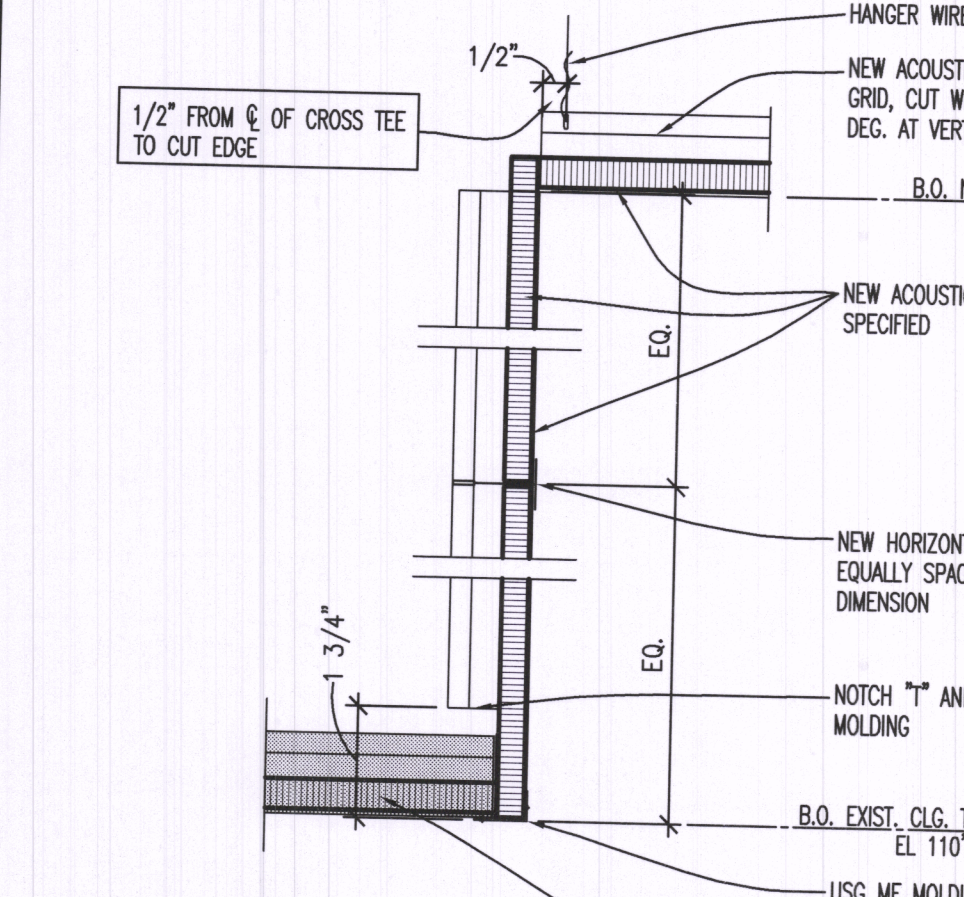
04 WALL SECTION
SCALE: 3/4"=1'-0"



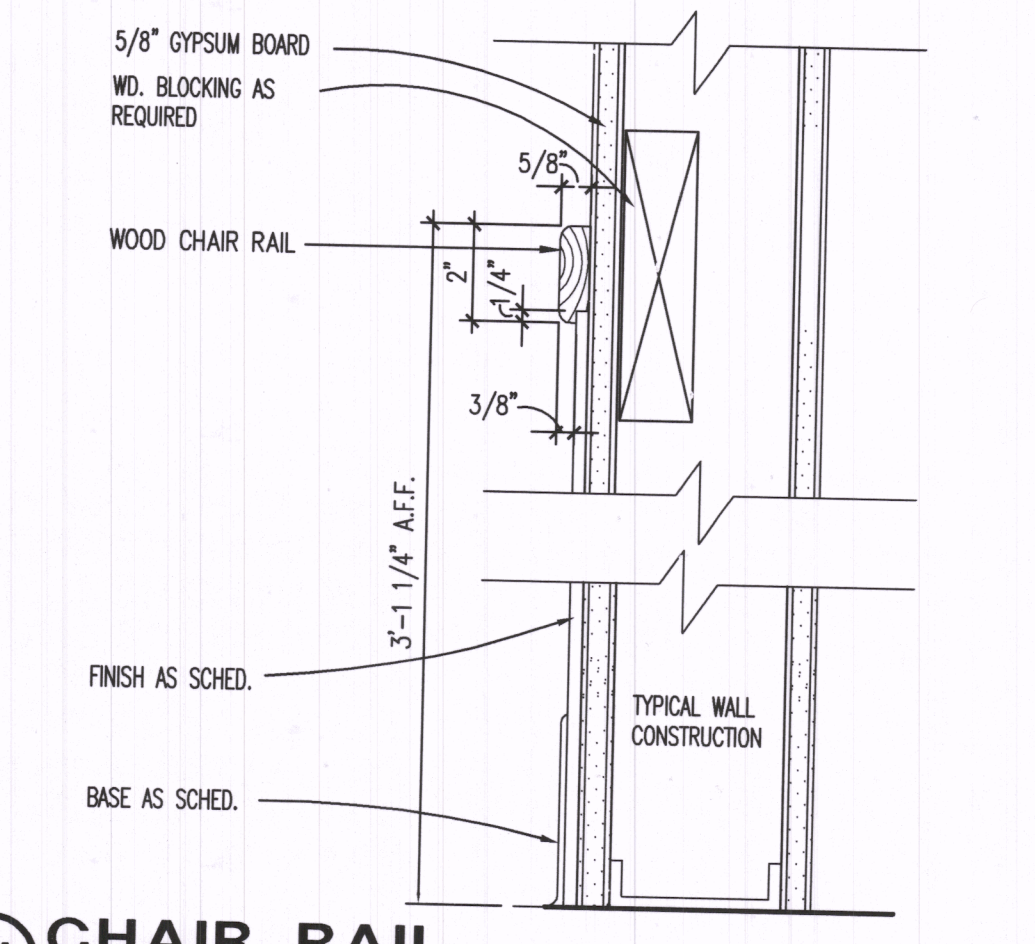
08 DETAIL
SCALE: 1 1/2"=1'-0"



09 TYP. EXIST. WALL CONDITION
SCALE: 1 1/2"=1'-0"



07 SECTION
SCALE: 3"=1'-0"



11 CHAIR RAIL
SCALE: 3"=1'-0"

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EXPANSION

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CEC ENTERTAINMENT, INC.
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CHUCK ECHES'S

EXTERIOR WALL SECTIONS

PROJECT NUMBER
024216.006

SHEET NUMBER
A3.0

ORIGINAL ISSUE DATE: 02/26/07
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- B. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
- B. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- C. COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
- D. WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
- E. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
- F. DUPLEX RECEPTABLES MOUNTED WITHIN SIX FT. OF SINK OR LAVATORY SHALL BE ONE PER NEC AND LOCAL CODES; ALL RECEPTABLES SHALL BE TAMPER PROOF.
- G. PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED FOR PROVIDING TELEPHONE SERVICE.
- H. ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
- I. ALL CASH REGISTER WIRING TO BE PULLED BY ELECTRICAL CONTRACTOR AND FINAL CONNECTION BY OWNER PER OWNER'S REQUIREMENTS. ALL CASH REGISTER OUTLET SHALL BE ISOLATED GROUND TYPE AND PROVIDE ISOLATED GROUND WIRE AND NORMAL GROUND WIRE.
- J. ALL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
- K. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- L. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER ADA REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
- M. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- N. ALL GROUND WIRES SHALL BE CONNECTED TO THE BUILDING GROUNDING SYSTEM PER LANDLORD'S SPECS. AND LOCAL JURISDICTION.
- O. ALL COMMUNICATION OUTLETS SUCH AS DATA/MICROS/POS, PRINTER, CREDIT CARD (VALIDATOR) ASSOCIATED WITH CHUCK E CHEESE'S SHALL BE CONNECTED TO THE CHUCK E CHEESE'S COMPUTER DATA SYSTEM INSIDE THE OFFICE .

CONDUIT FITTING CONNECTIONS SHALL BE IN ACCORDANCE WITH P. LANDLORD'S SPECS. AND LOCAL JURISDICTION.

2/26/07

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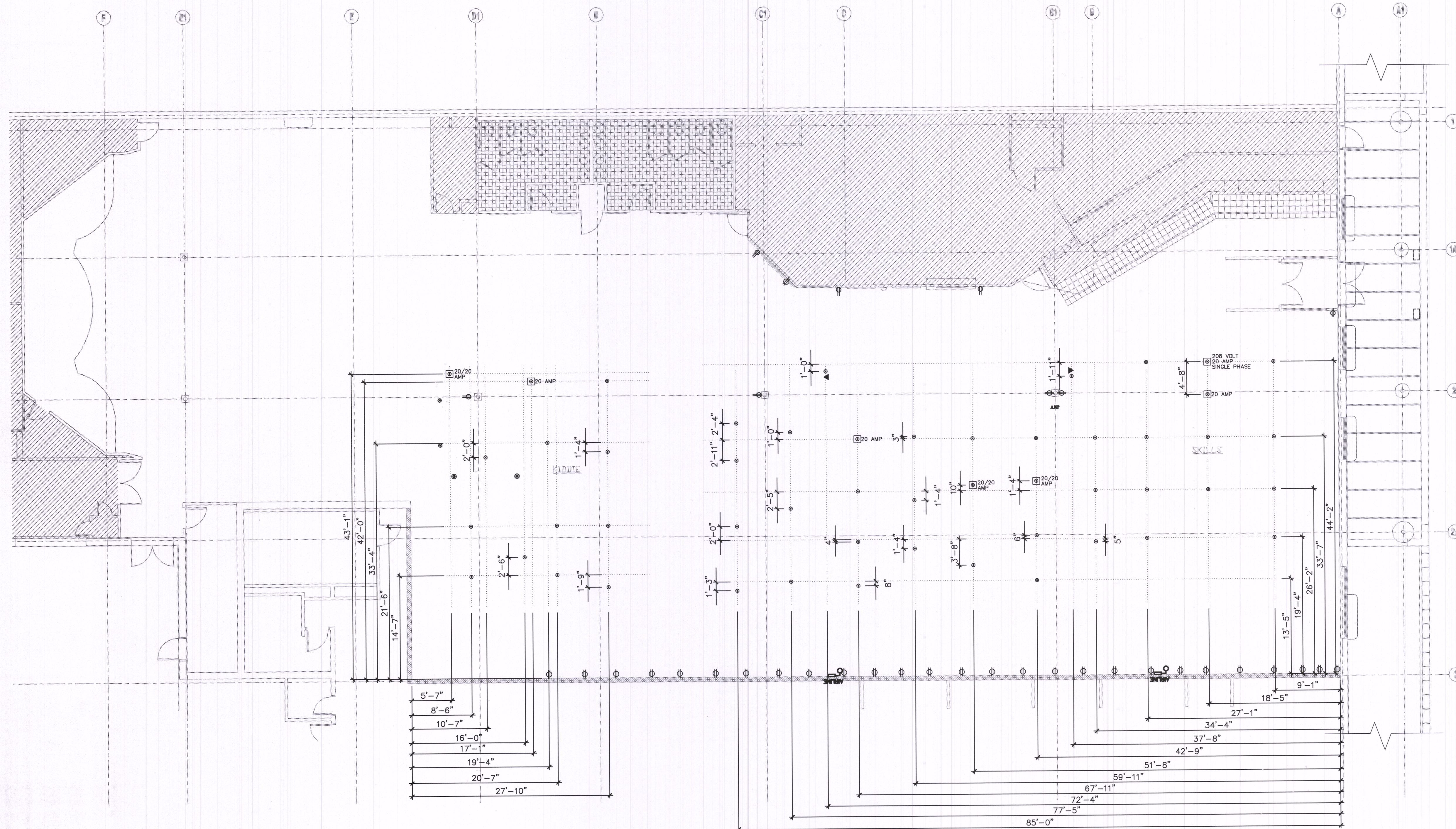
CHUCK E CHEESE'S

PROJECT NUMBER
024216.000

SHEET NUMBER

K3.0

ORIGINAL ISSUE DATE: 02/26/2000
DATE OF THIS PRINTING: 2/27/2000

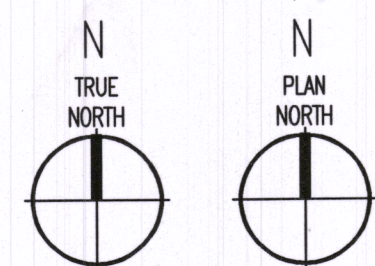
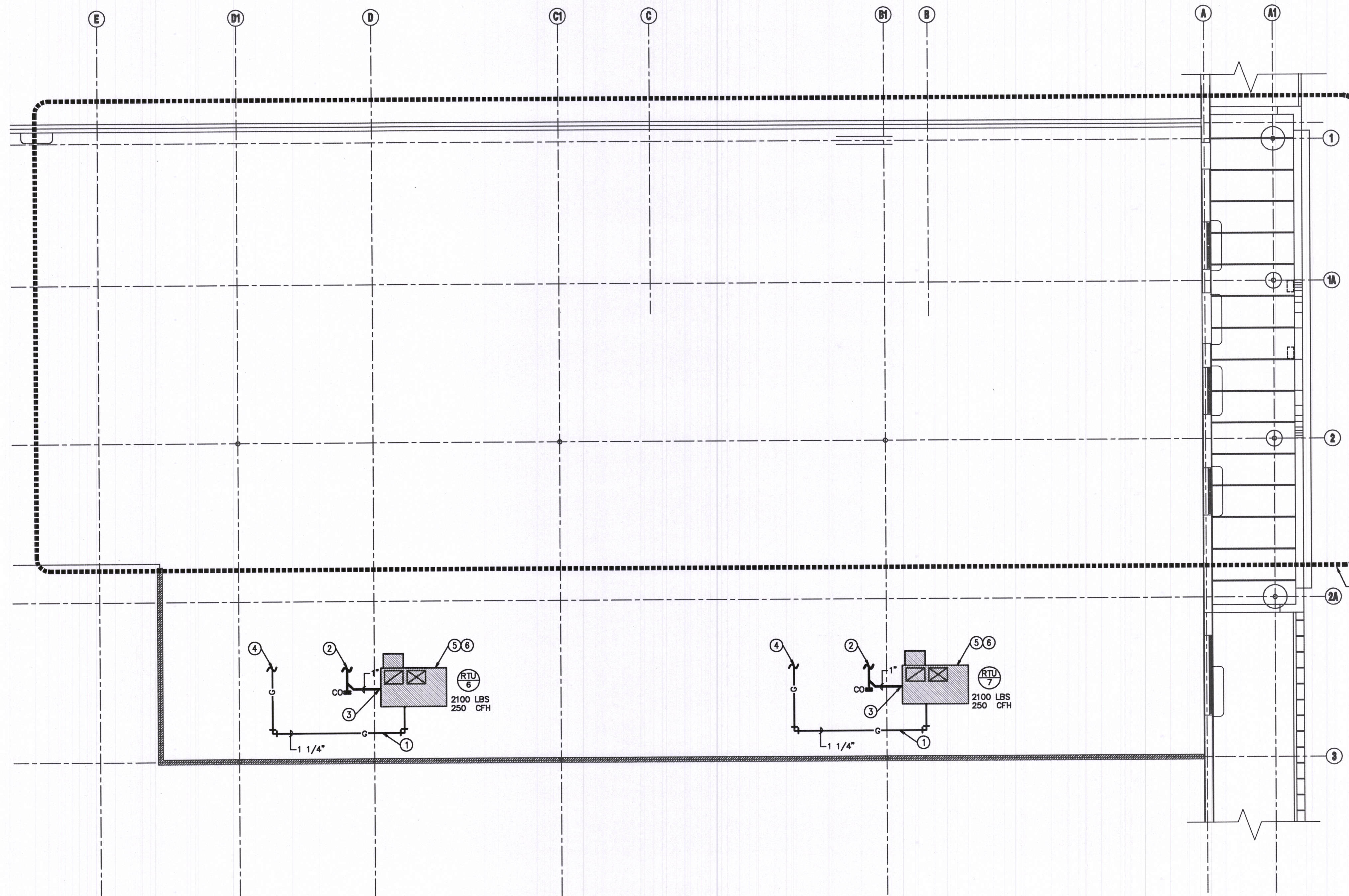


01 ELECTRICAL ROUGH-IN PLAN

ELECTRICAL

SYMBOLS & ABBREVIATIONS

	SINGLE CONVENIENCE OUTLET (SCO)	W	WAITS
	DOUBLE CONVENIENCE OUTLET (DCO)	PH	PHASE
	JUNCTION BOX (JB)	AFF	ABOVE FINISHED FLOOR
	QUADRPLEX	BTC	BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT
	MOTOR OUTLET	BTF	BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE
	SOLENOID OR CONTROL CIRCUIT	DFA	DOWN FROM ABOVE
	SINGLE POWER OUTLET AS NOTED	SU	STUB UP AFF
	CONVENIENCE OUTLET, 2 CIRCUIT 120/208V-1PH, 3 WIRE (OR AS NOTED)	WP	WEATHER PROOF
	LIGHT INDICATION	BFC	BELOW FINISHED CEILING
	CONDUIT AS NOTED		
	TELEPHONE OUTLET		
	PANELBOARD		
	DISCONNECT SWITCH		
	MOTOR SWITCH		
	SWITCH AND PILOT LIGHT		
	ELEVATION AFF		
	AMPERES		
	VOLTS		
	FLOOR RECEPTACLE		



01 MECHANICAL ELECTRICAL PLUMBING ROOF PLAN
SCALE: 1/8"=1'-0"

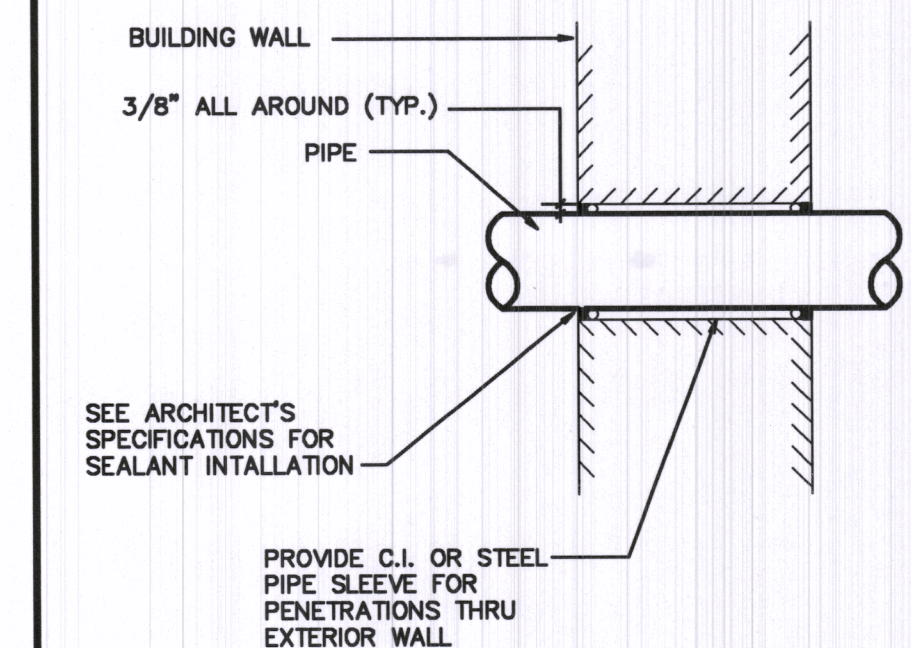
NOTES BY SYMBOL "O"

- ① LOW PRESSURE GAS PIPING ON ROOF. PROVIDE PIPE SUPPORTS. PAINT EXPOSED PIPING ON ROOF WITH ZINC RICH GALVANIZING PAINT FOR CORROSION PROTECTION.
- ② EXTEND CONDENSATE DRAIN PIPING ON ROOF TO NEAREST EXISTING DRAIN PIPING OF ADEQUATE SIZE AND CAPACITY. COORDINATE ROUTING AND THE COMPLETE INSTALLATION IN THE FIELD. COPPER DWV PIPING ONLY (NO PVC). SLOPE PIPING TO DRAIN. PROVIDE PIPE SUPPORTS AS REQUIRED TO MATCH EXISTING EQUIPMENT.
- ③ CONDENSATE CONNECTION AT RTU (TYPICAL). SEE DETAIL 03 ON THIS SHEET.
- ④ EXTEND LOW PRESSURE GAS PIPING ON ROOF TO NEAREST EXISTING GAS PIPING OF ADEQUATE SIZE AND CAPACITY. COORDINATE ROUTING AND THE COMPLETE INSTALLATION IN THE FIELD. PROVIDE PIPE SUPPORTS AS REQUIRED TO MATCH EXISTING EQUIPMENT.
- ⑤ NEMA 3R DISCONNECT SWITCH AND WP, GFCI SHALL BE PROVIDED WITH THE RTU.
- ⑥ GENERAL CONTRACTOR SHALL PROVIDE SUPPLEMENTAL BRACING AND PENETRATION FRAMING FOR THE INSTALLATION OF THE ROOFTOP UNIT. COORDINATE REQUIRED WORK WITH EXISTING STRUCTURAL CONDITIONS.

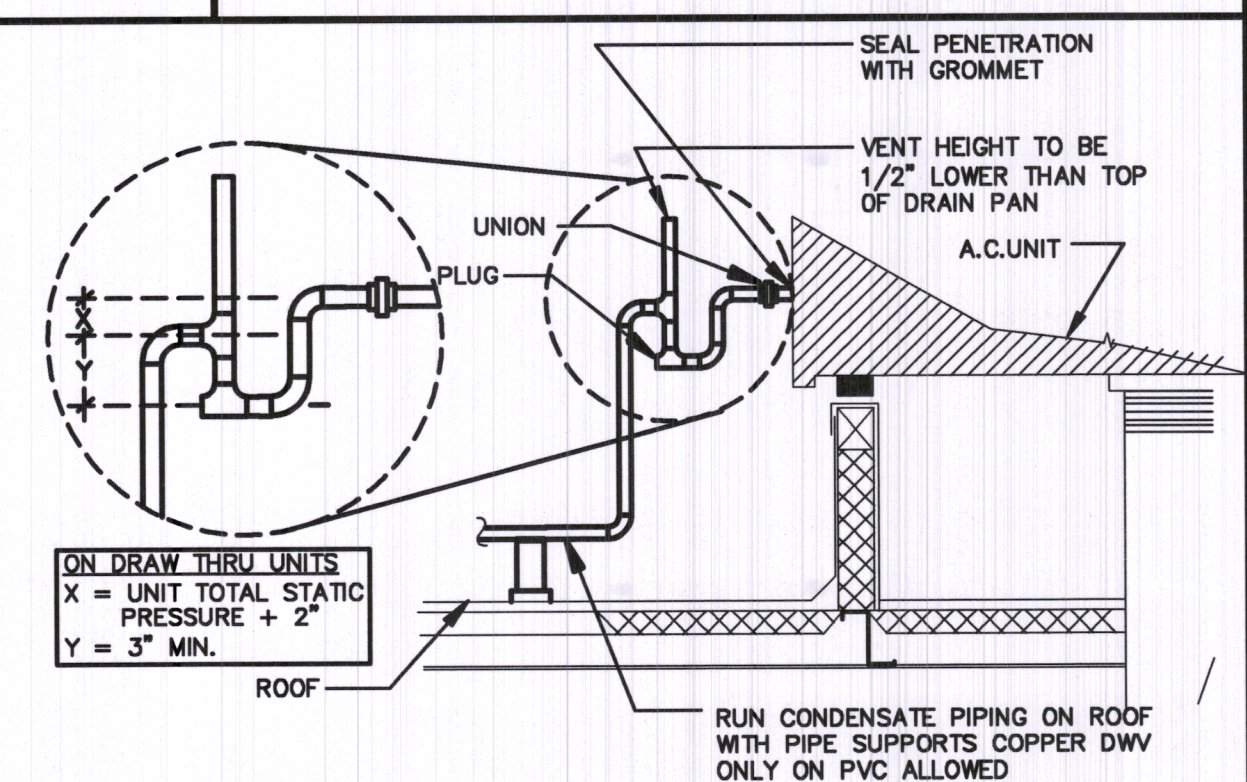
GAS DEMAND SCHEDULE

TAG	ITEM	DEMAND
-	(E) RTU-1	240 CFH
-	(E) RTU-2	240 CFH
-	(E) RTU-3	250 CFH
-	(E) RTU-4	74 CFH
-	(E) RTU-5	125 CFH
-	RTU-6	250 CFH
-	RTU-7	250 CFH
K13	(E) PIZZA OVEN 2 @ 120	240 CFH
-	(E) GWH	199 CFH
	TOTAL =	1868 CFH

LOW PRESSURE GAS
GAS PIPING SYSTEM SIZED FROM THE 2000 IFGC, CHAPTER 4, SECTION 402 (IFGC), TABLE 402.3 (6) BASED ON 200' (MAX.) TOTAL LENGTH UNDER (1) POUND 4 OZ./7" WC

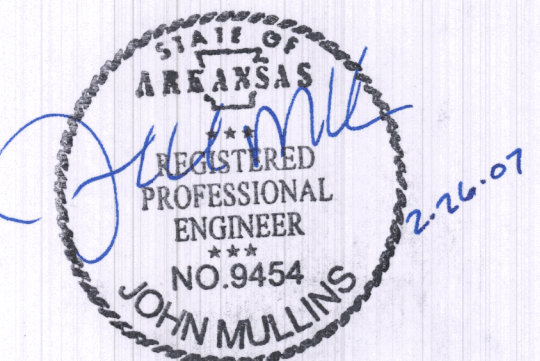


02 PIPE SLEEVE DETAIL
SCALE: NONE



03 CONDENSATE DETAIL
SCALE: NONE

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EXPANSION

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CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

CHUCKE CHEESES
MECHANICAL ROOF PLAN

PROJECT NUMBER
024216.006

SHEET NUMBER
MEP1.0

ORIGINAL ISSUE DATE: 02/26/07
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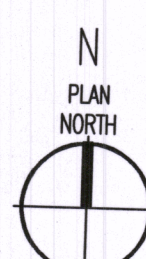
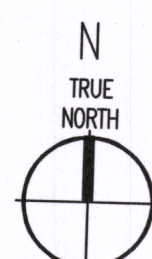
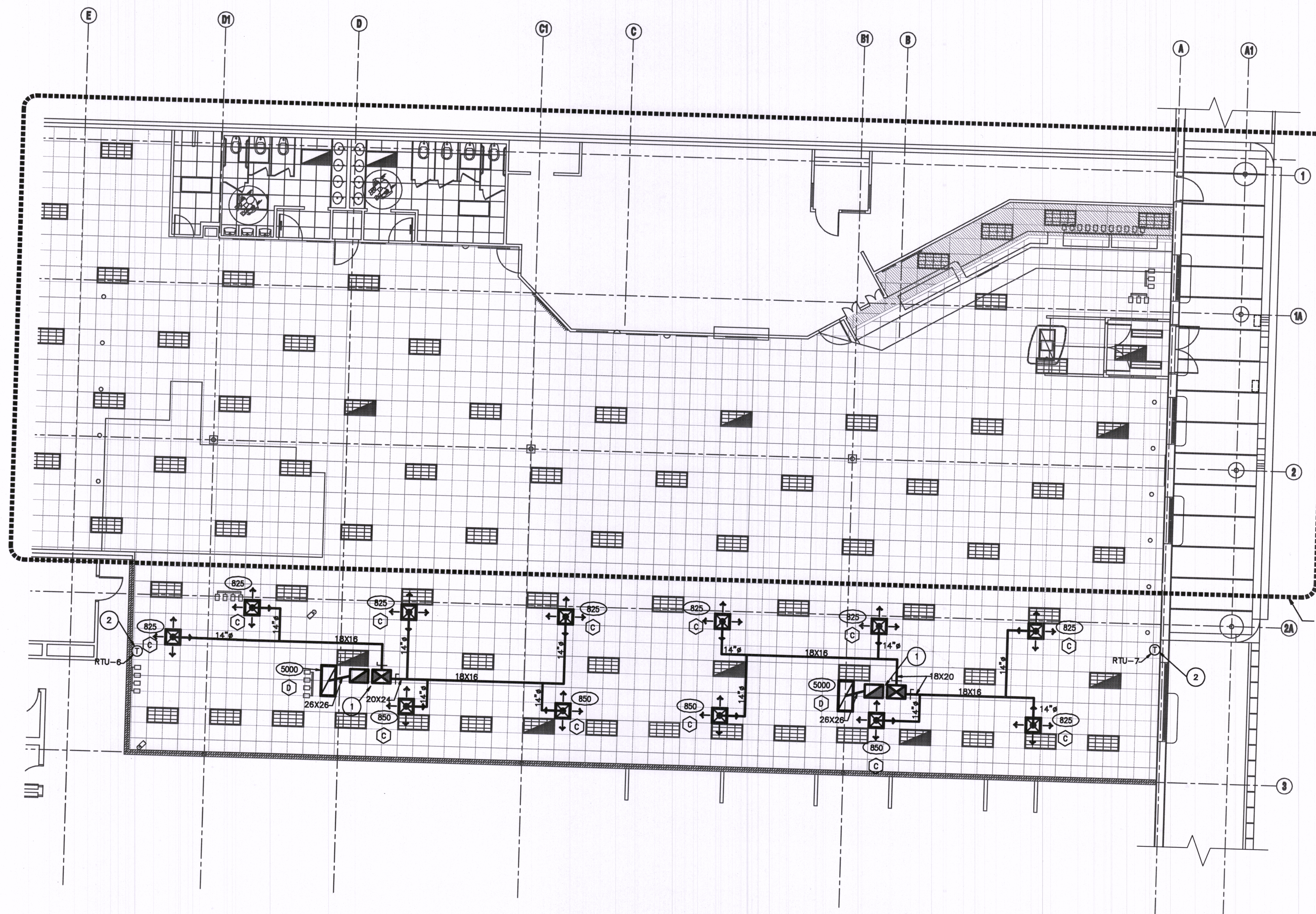
GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLINGS, JOINTS, VENTS, PIPING OR EQUIPMENT.
2. ALL NEW ROOFTOP EQUIPMENT SHALL HAVE MANUFACTURER SUPPLIED ROOF CURBS AND PIPE SEALS.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTER ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES, IS NOT LIMITED TO REFRIGERANT LINES, ETC.
5. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FANS OR PLUMBING VENTS.
6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
7. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 3'-0" WITH 2" WIDE GALV. STEEL BANDS WITH A MINIMUM OF ONE PER EACH SECTION OF FLEXIBLE DUCT.
8. NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILINGS.
9. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
10. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHTING LAYOUTS AS REQUIRED.
11. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
12. ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR. INSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED.
13. INSTALL ALL NEW DUCTWORK TIGHT TO STRUCTURE.

PLAN NOTES

1. NEW SUPPLY AND RETURN RISERS FROM NEW RTU. RISERS SHALL BE EXTENDED TO THE FULL SIZE OF UNIT OPENING. PROVIDE FLEXIBLE CONNECTION AT UNIT.
2. WALL MOUNTED T-STAT FOR 24/7 CONTROL OF RTU. MOUNT AT 48" A.F.F. COORDINATE LOCATION WITH GAMES AND FINISHES.

ALL MECHANICAL EQUIPMENT, DUCTWORK, AIR DEVICES, ETC. IN THIS AREA ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.



01 MECHANICAL FLOOR PLAN

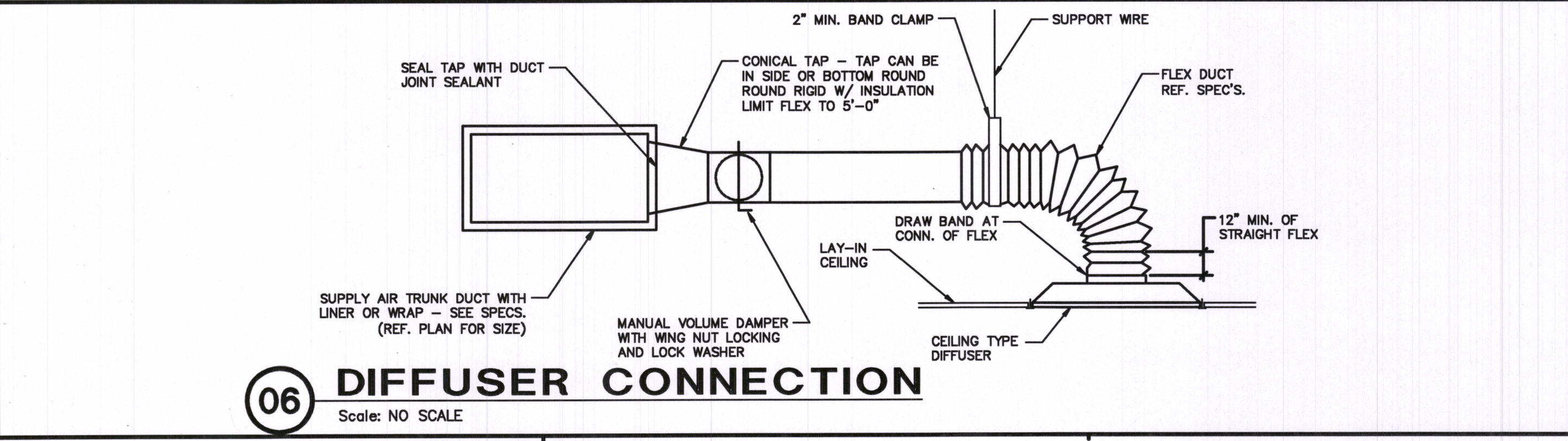
SCALE: 1/8"=1'-0"

NO MODIFICATIONS OR NEW WORK ARE SCHEDULED FOR THE KITCHEN AREA. THE KITCHEN HOOD EXHAUST SYSTEM IS EXISTING TO REMAIN.

ROOFTOP UNIT SCHEDULE (EXISTING AND NEW)																			
MARK	MFG'R	MODEL	NOM. TONS	SUPPLY CFM	SUPPLY FAN H.P.	EXT. S.P.	O/A CFM	COOLING BTUH		HEATING BTUH		ELECTRICAL							
								COOLING TOTAL	COOLING SENSIBLE	HEATING INPUT	HEATING OUTPUT	COMP. NO.	COMP. RLA EA.	FAN NO.	FAN FLA EA.	VOLT	#	MCA	FUSE SIZE
RTU 1	LENNOX	LG4120H2B	10.0	-	-	-	-	-	-	-	-	-	-	-	-	480	3	29	-
RTU 2	LENNOX	LG4120H2B	10.0	-	-	-	-	-	-	-	-	-	-	-	-	480	3	29	-
RTU 3	CARRIER	48HJED14	10.0	-	-	-	-	-	-	-	-	-	-	-	-	480	3	29.1	-
RTU 4	CARRIER	48TJ0006	5.0	-	-	-	-	-	-	-	-	-	-	-	-	480	3	14.8	-
RTU 5	CARRIER	48TJ0008	7.5	-	-	-	-	-	-	-	-	-	-	-	-	480	3	18.4	-
RTU 6	LENNOX	LGC15052	12.5	5000	3.7	0.8"	1500	170000	127000	250000	205000	2	10.6	4	1.5	480	3	32	40
RTU 7	LENNOX	LGC15052	12.5	5000	3.7	0.8"	1500	170000	127000	250000	205000	2	10.6	4	1.5	480	3	32	40
NOTES: 1. EXISTING UNIT TO REMAIN. 2. UNITS SELECTED AT 80°F DB, 67°F WB, 105°F OUTDOOR AMBIENT. 3. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER. 4. PROVIDE FRESH AIR TEMPERING KIT, SINGLE ENTHALPY ECONOMIZER, AND BAROMETRIC RELIEF. 5. PROVIDE FACTORY WIRED AND INSTALLED RETURN AIR SMOKE DETECTOR. 6. PROVIDE FACTORY INSTALLED ELECTRICAL DISCONNECT AND CONVENIENCE RECEPTACLE. RECEPTACLE SHALL BE FIELD WIRED. 7. PROVIDE MANUFACTURER AVAILABLE FIELD INSTALLED 24/7 PROGRAMMABLE AUTO CHANGEOVER TOUCH SCREEN THERMOSTAT. 8. NEW ROOFTOP UNIT SHALL BE PURCHASED THROUGH LENNOX NATIONAL ACCOUNT AGREEMENT. CONTACT LOCAL SALES OFFICE FOR PRICING, OR LENNOX NATIONAL ACCOUNT MANAGER: CHRIS MURRAY AT 800.367.6285																			

AIR DISTRIBUTION										
MARK	MFG'R	MODEL	FLOW RATE CFM	CORE VEL. FPM	N.C. LEVEL	MODULE SIZE	NECK SIZE	MOUNTING TYPE	DESCRIPTN	NOTES
CFM (A)	TITUS OR EQUAL	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER	1, 2
CFM (B)	TITUS OR EQUAL	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	12"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER	1, 2
CFM (C)	TITUS OR EQUAL	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	14"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER	1, 2
CFM (D)	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	48x24	46x22	LAY-IN	0" DEFLECTION SLOTTED RETURN GRILLE	1, 3
CFM (E)	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY-IN	0" DEFLECTION SLOTTED RETURN GRILLE	1, 3
CFM (F)	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY-IN	0" DEFLECTION SLOTTED EXHAUST GRILLE	1, 3
CFM (G)	TITUS OR EQUAL	BSS	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY-IN	PERFORATED EXHAUST GRILLE	5
CFM (H)	TITUS OR EQUAL	272FS	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SURFACE	SIDEWALL SUPPLY GRILLE	1
CFM (J)	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SURFACE	0" DEFLECTION SLOTTED EXHAUST GRILLE	1
NOTES: 1. PROVIDE WITH OFF-WHITE FINISH. 2. PROVIDE WITH AG-75 DAMPER. 3. PROVIDE WITH AG-35-AA DAMPER. 4. PROVIDE WITH MP-39 DIFFUSER PLENUM. PROVIDE OVAL TO ROUND TRANSITION AS REQUIRED. 5. PROVIDE WITH AG-15-SS DAMPER.										

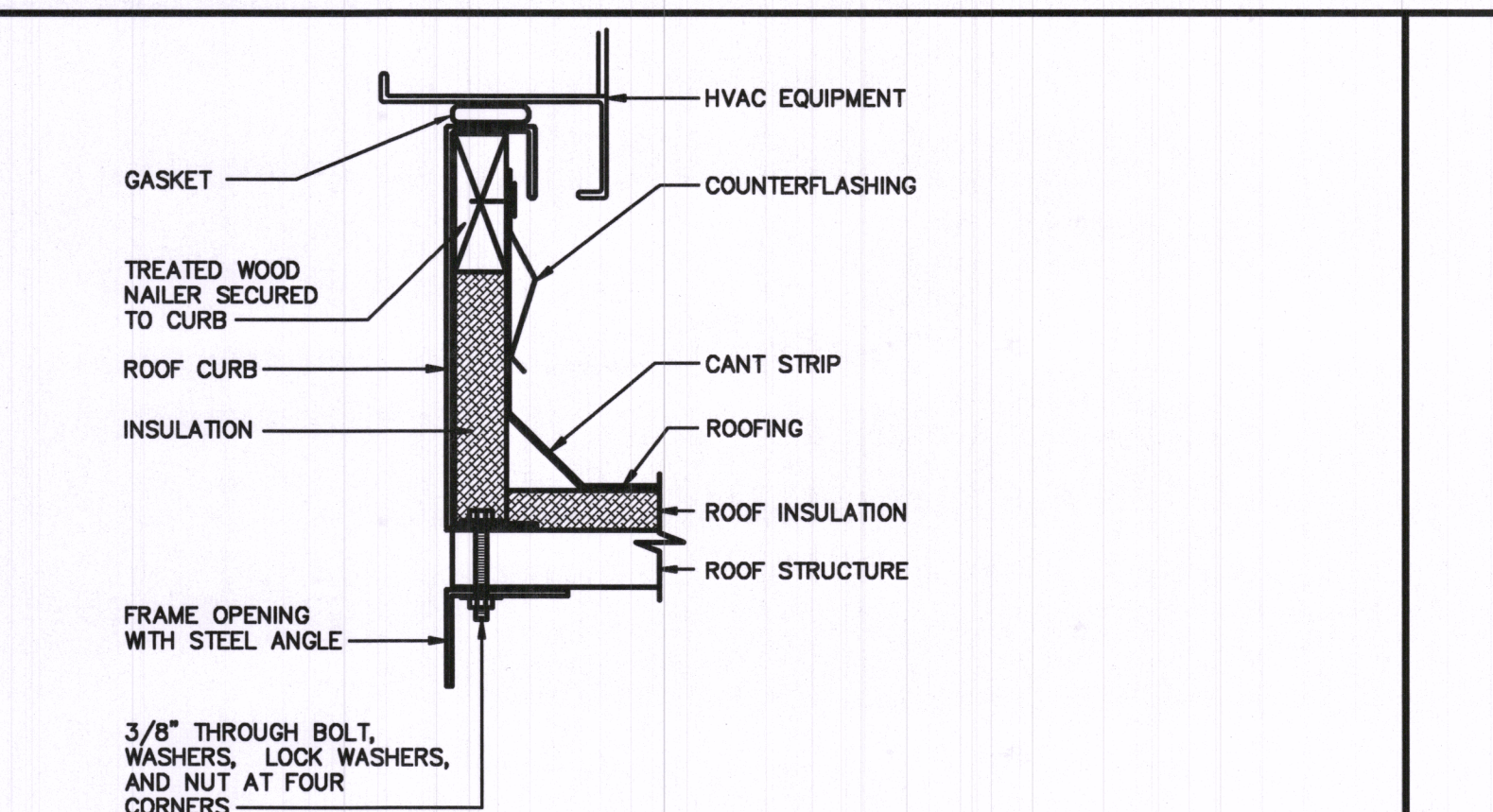
ROOFTOP UNIT LABELING									
ALL ROOFTOP UNITS ARE TO BE LABELED WITH ENGRAVED LAMINATED NAMEPLATES, SCREWED TO THE EXTERIOR OF THE UNITS SHOWING THE FOLLOWING INFORMATION :									
1. UNIT NUMBER _____									
2. MODEL NUMBER _____									
3. SERIAL NUMBER _____									
4. GAS OR ELECTRIC HEAT _____									
5. TONNAGE _____									
6. VOLTAGE _____									



<u>OUTSIDE AIR REQUIRED</u>				
<u>ROOM USE</u>	<u>SQ. FT.</u>	<u>No. PEOPLE</u>	<u>CFM/PERSON</u>	<u>CFM REQ'D</u>
(E) KITCHEN	-	10	15	150
(E) DINING/ GAMES	-	261	20	5220
EXPANSION	-	127	20	2540
TOTAL				7910
<u>OUTSIDE AIR PROVIDED</u>				
<u>UNIT No.</u>	<u>SUPPLY AIR</u>	<u>RETURN AIR</u>	<u>OUTSIDE AIR</u>	
(E) RTU-1	4000	*2800	*1200	
(E) RTU-2	4000	*2800	*1200	
(E) RTU-3	4000	*2800	*1200	
(E) RTU-4	2000	*1400	*600	
(E) RTU-5	3000	*2000	*1000	
RTU-6	5000	3500	1500	
RTU-7	5000	3500	1500	
TOTAL				8200
ALL CALCULATIONS ARE BASED ON DATA PROVIDED IN THE 2003 INTERNATIONAL MECHANICAL CODE. AIR BALANCE SHOWN FOR EXISTING UNITS SHALL REMAIN UNCHANGED (UNO). AIR VALUES WITH AN (*) INDICATE A MODIFICATION TO THE EXISTING QUANTITY TO THE VALUE SHOWN. PROVIDE ADJUSTMENTS TO ECONOMIZERS AND DAMPER POSITIONS AS NECESSARY.				

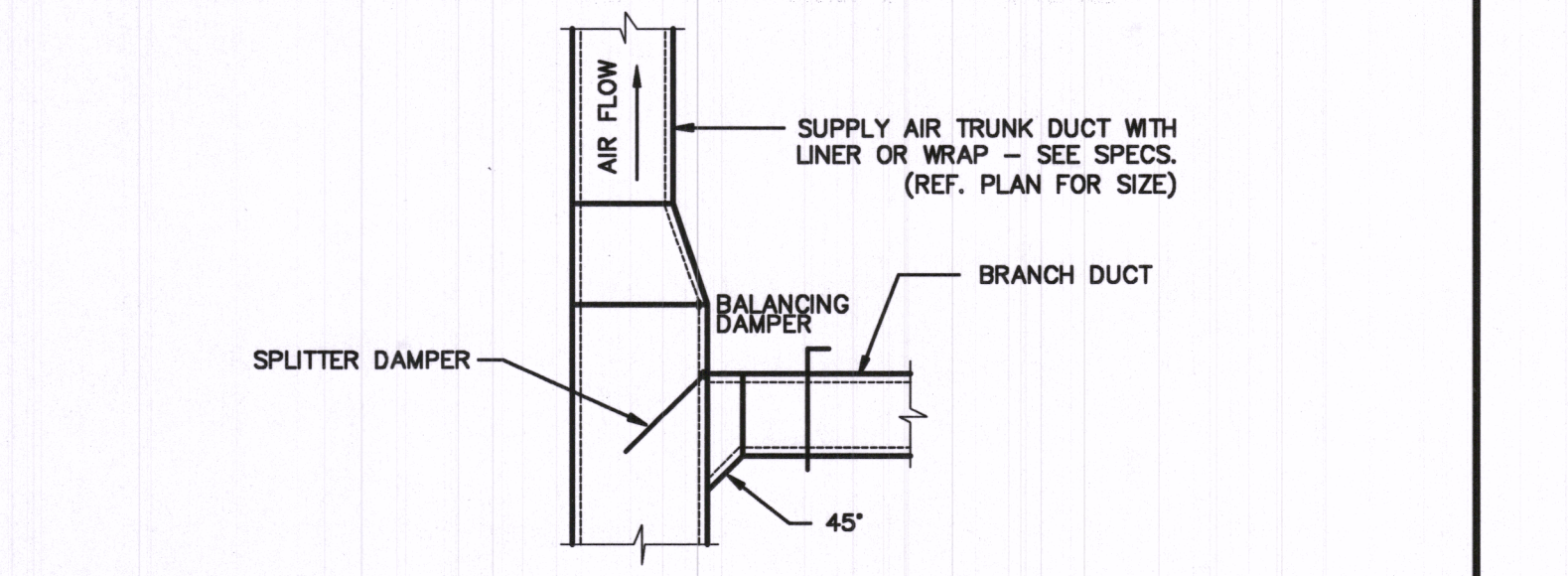
01 OUTSIDE AIR CALCULATIONS

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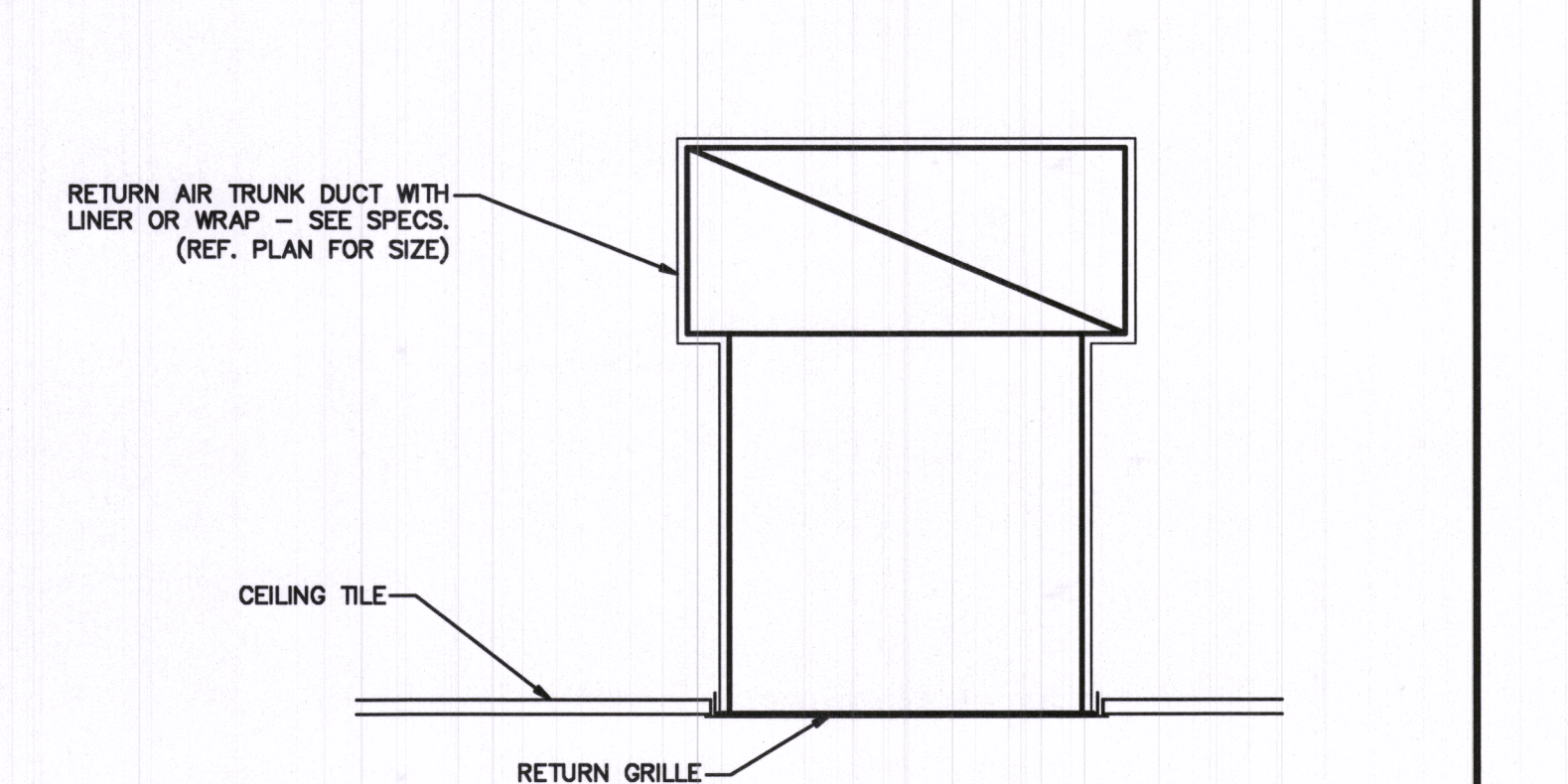
02 RTU CURB

Scale: NO SCALE



04 TYP. BRANCH DUCT TAP

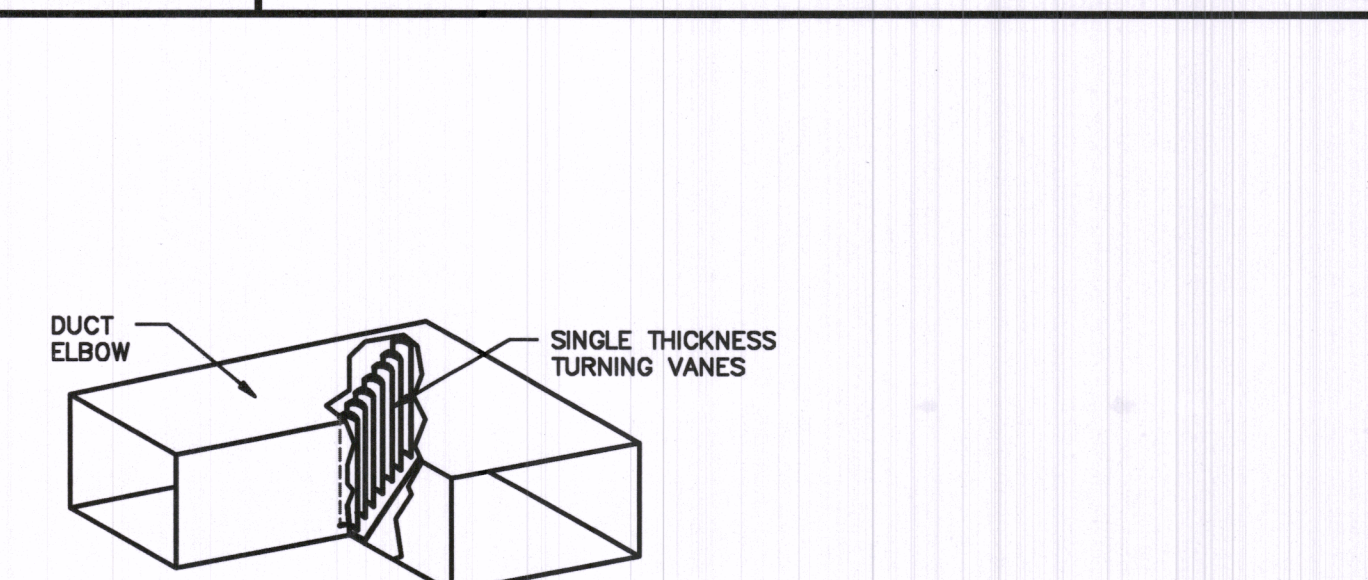
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07 RETURN AIR CONNECTION

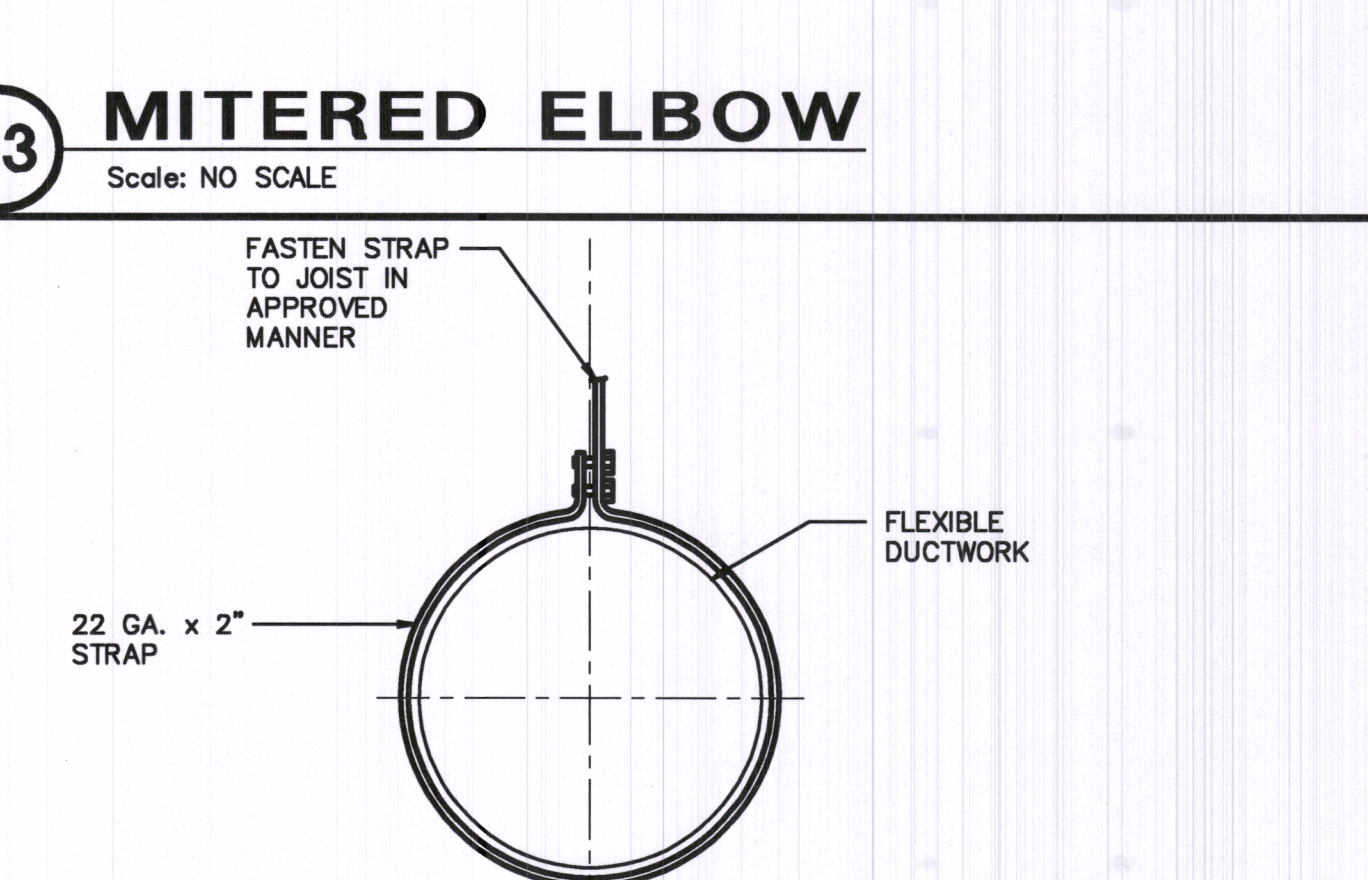
Scale: NO SCALE

MECHANICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
→	DIRECTION OF FLOW	□	LINED DUCTWORK
⊖	THERMOSTAT	⊖	RECTANGULAR ELBOW WITH TURNING VANES
⊖	GATE VALVE	⊖	ROUND FLEXIBLE DUCT CONNECTION
⊖	CHECK VALVE	⊖	90 DEGREE ELBOW DOWN
⊖	STRAINER	⊖	90 DEGREE ELBOW UP
⊖	UNION	⊖	FLEXIBLE DUCT CONNECTION
⊖	PRESSURE GAUGE	⊖	SUPPLY AIR DEVICE
⊖	THERMOMETER	⊖	DUCT SIZE TRANSITION
E.A.	EXHAUST AIR	CHWS	CHILLED WATER SUPPLY
F.D.	FIRE DAMPER	CHWR	CHILLED WATER RETURN
H.O.A.	HAND - OFF - AUTOMATIC	CWS	CONDENSER WATER SUPPLY
N.C.	NORMALLY CLOSED	CWR	CONDENSER WATER RETURN
N.O.	NORMALLY OPEN	HWS	HOT WATER SUPPLY
M.A.	MIXED AIR	HWR	HOT WATER RETURN
O.A.	OUTSIDE AIR	RS	REFRIGERANT SUCTION
REL. A.	RELIEF AIR	RL	REFRIGERANT LIQUID
R.A.	RETURN AIR	Y"xZ"	Y=WIDTH Z=DEPTH
⊖	DUCT MOUNTED SMOKE DETECTOR	⊖	SUPPLY & RETURN DUCT
⊖	MANUAL BALANCING DAMPER	⊖	BALANCE DAMPER
⊖	MOTORIZED DAMPER	⊖	POINT OF CONNECTION
⊖	CEILING RETURN AIR DEVICE	NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.	
⊖	SUPPLY DUCT RISER		



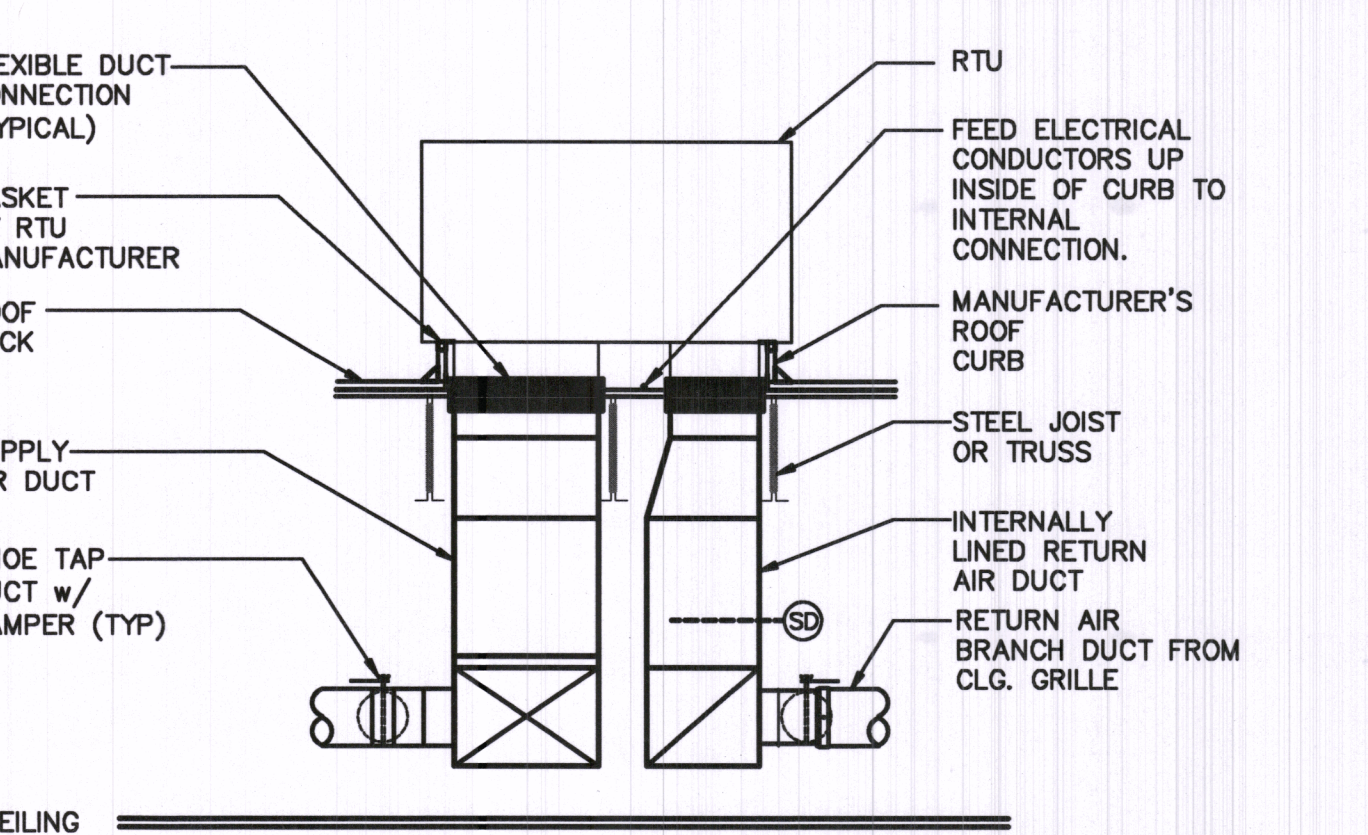
03 MITERED ELBOW

Scale: NO SCALE



05 FLEX DUCT SUPPORT

Scale: NO SCALE



08 RTU DUCT DETAIL

Scale: NO SCALE

Carter-Burgess
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2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903

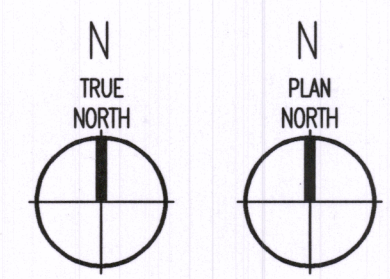
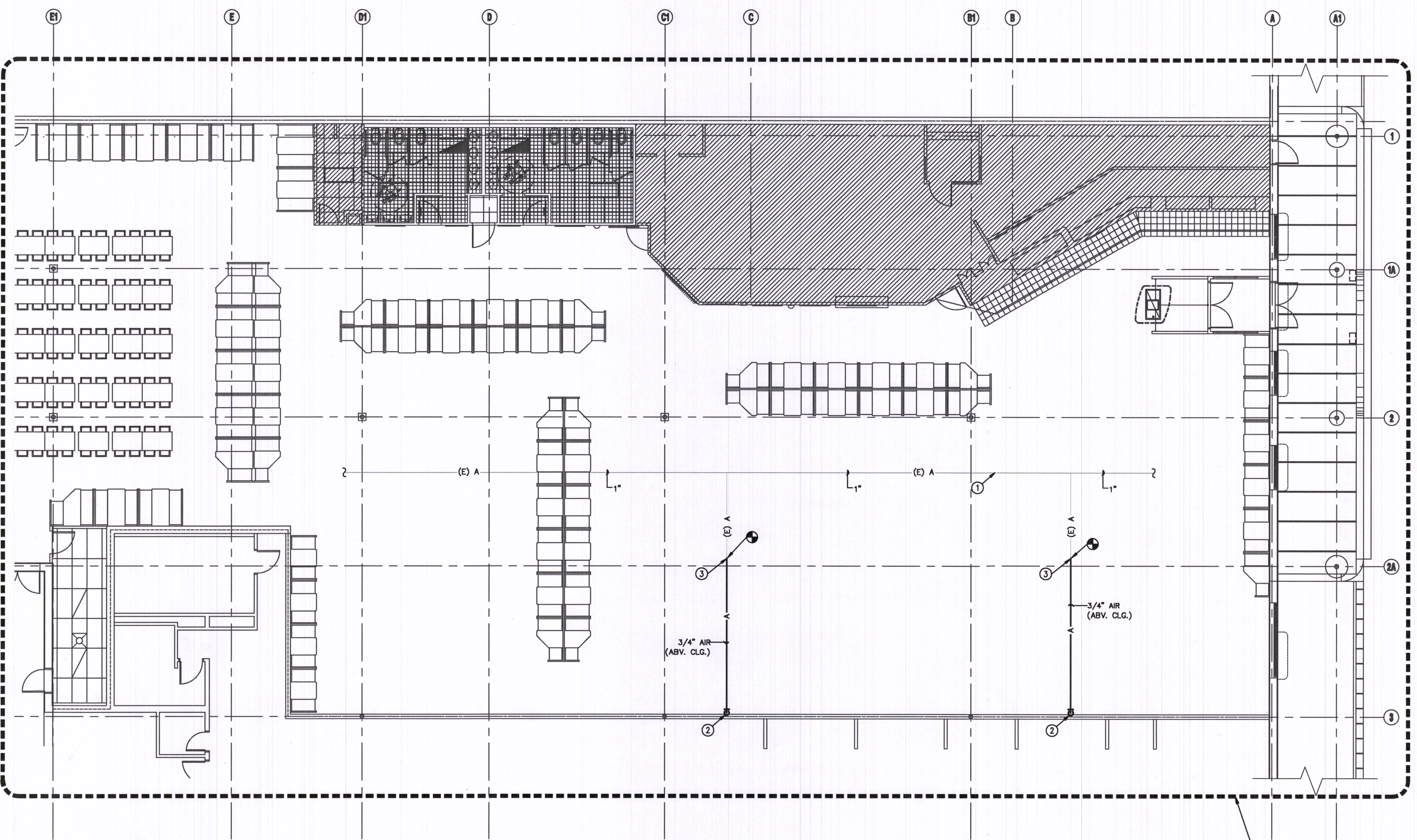
SECURITY FIRST
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

MECHANICAL SCHEDULE & DETAILS

PROJECT NUMBER
024216.006

SHEET NUMBER
M2.0

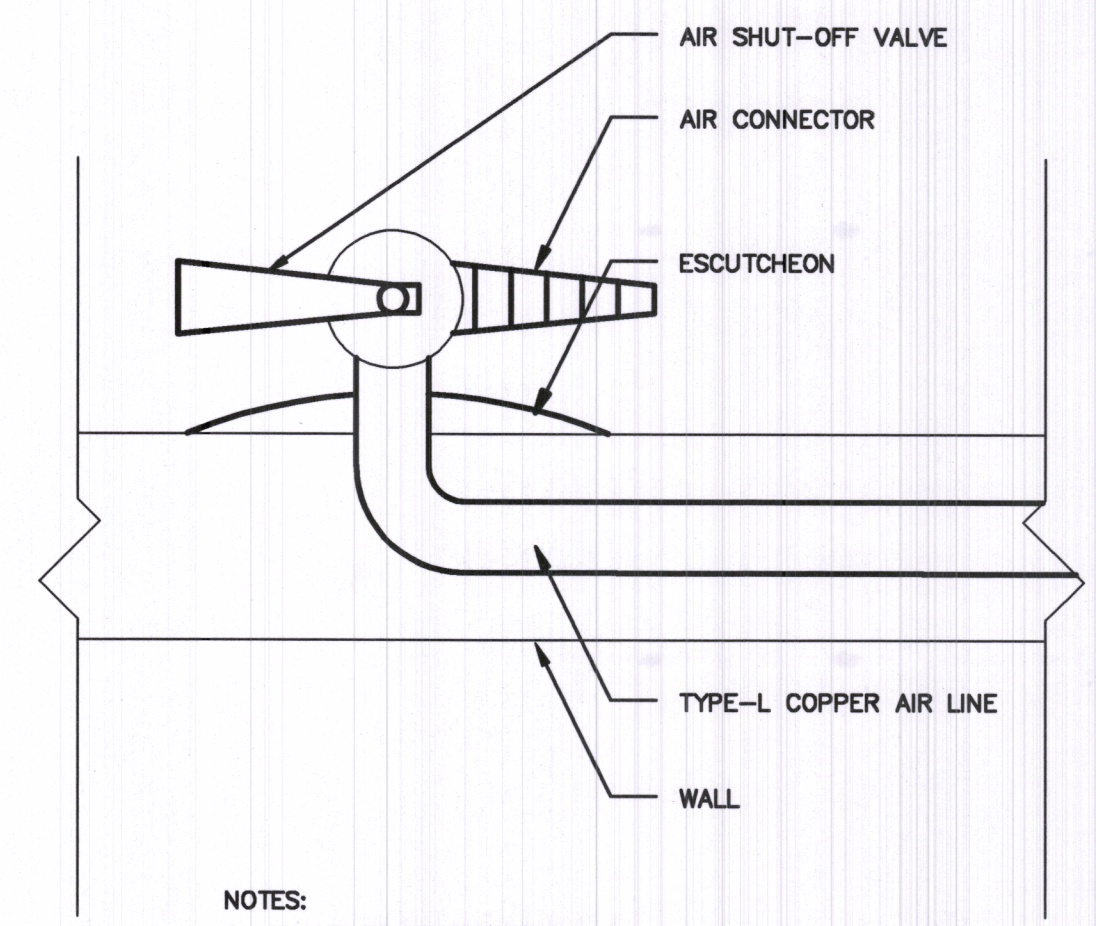
ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 2/26/07



01 PLUMBING FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTES BY SYMBOL "O"

- EXISTING 1" TYPE-L COPPER AIR LINE ABOVE CEILING. VERIFY ACUTAL LOCATION IN THE FIELD.
- 3/4" TYPE-L COPPER AIR LINE DOWN TO GAMES TO TERMINATE W/ 1/2" THREADED BALL VALVE LOCATED AT 12" A.F.F. SEE DETAIL ON THIS SHEET.
- EXTEND EXISTING OVERHEAD 3/4" TYPE-L COPPER AIR LINE TO NEW GAMES LOCATION.



- NOTES:
- VALVE TO BE MOUNTED @ 12" A.F.F.
 - SEE PLUMBING PLANS NOTES FOR FINAL CONNECTION.

02 AIR CONNECTION DETAIL
SCALE: NONE

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2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
100 WALL ST.
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

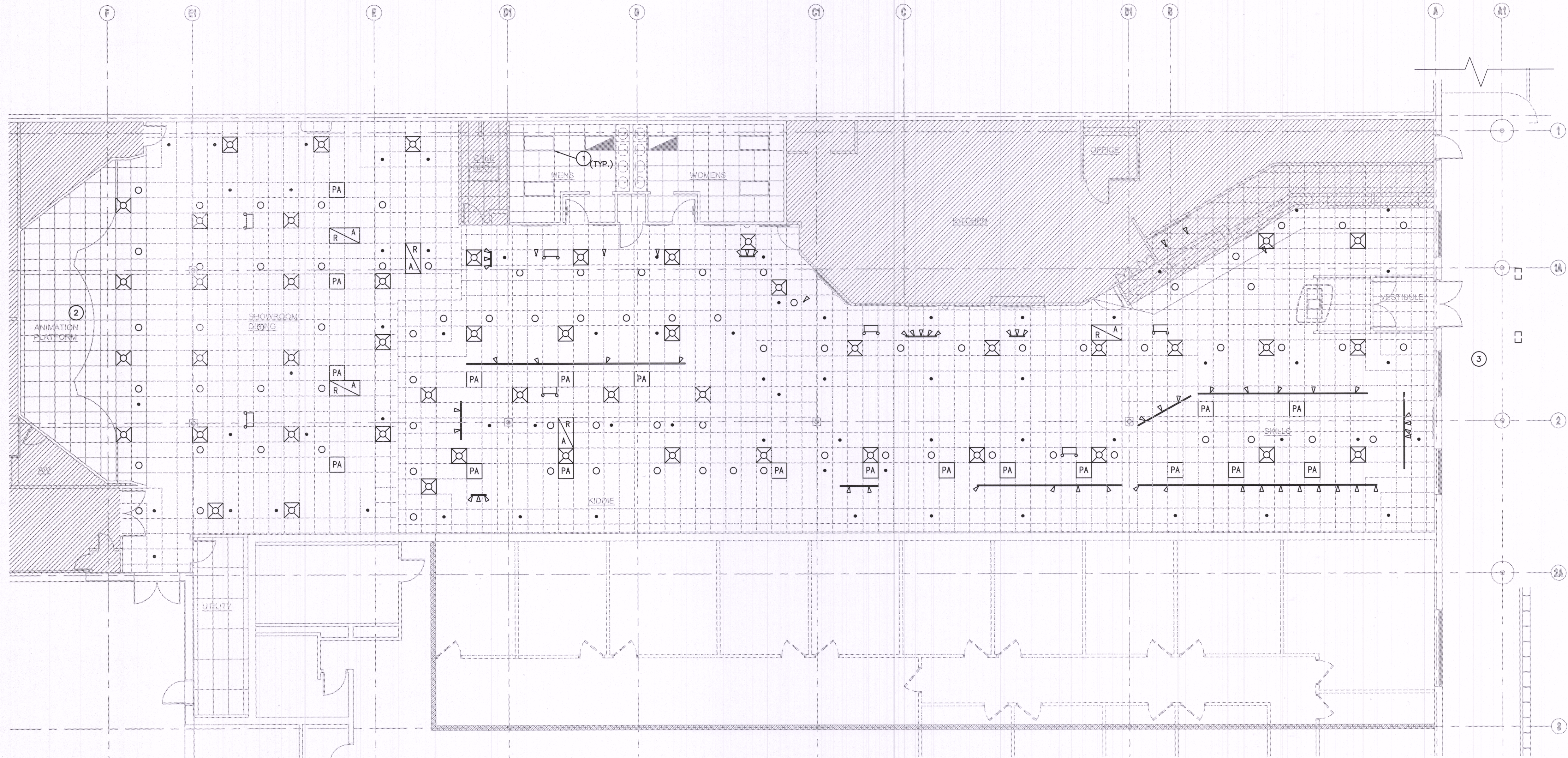


PLUMBING FLOOR PLAN

PROJECT NUMBER
024216.006

SHEET NUMBER
P1.1

ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 2/26/07



LIGHTING NOTES

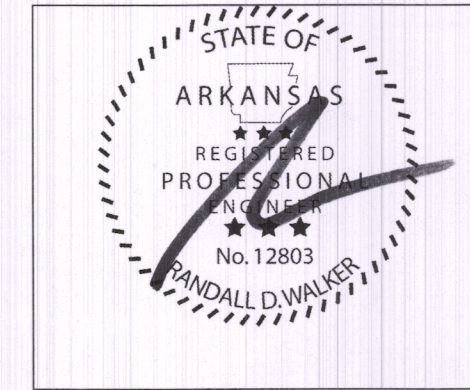
- A. ALL LIGHTING FIXTURES IN THE DINING AND GAMES AREAS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- B. ALL CEILING RECEPTACLES SHALL BE EXTENDED TO NEW LOCATIONS AS SHOWN ON THE LIGHTING AND POWER PLANS.

NOTES BY SYMBOL "O"

1. ALL RESTROOM LIGHTING IS EXISTING TO REMAIN.
2. ALL EXISTING STAGE THEATRICAL LIGHTING SHALL BE REMOVED AND REINSTALLED AT NEW CEILING HEIGHT.
3. EXTERIOR LIGHTING SHALL REMAIN.

Carter Burgess

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EXPANSION

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CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



FLOOR PLAN - LIGHTING DEMO

01 FLOOR PLAN - LIGHTING DEMO

SCALE: 1/8"=1'-0"

PROJECT NUMBER
024216.006

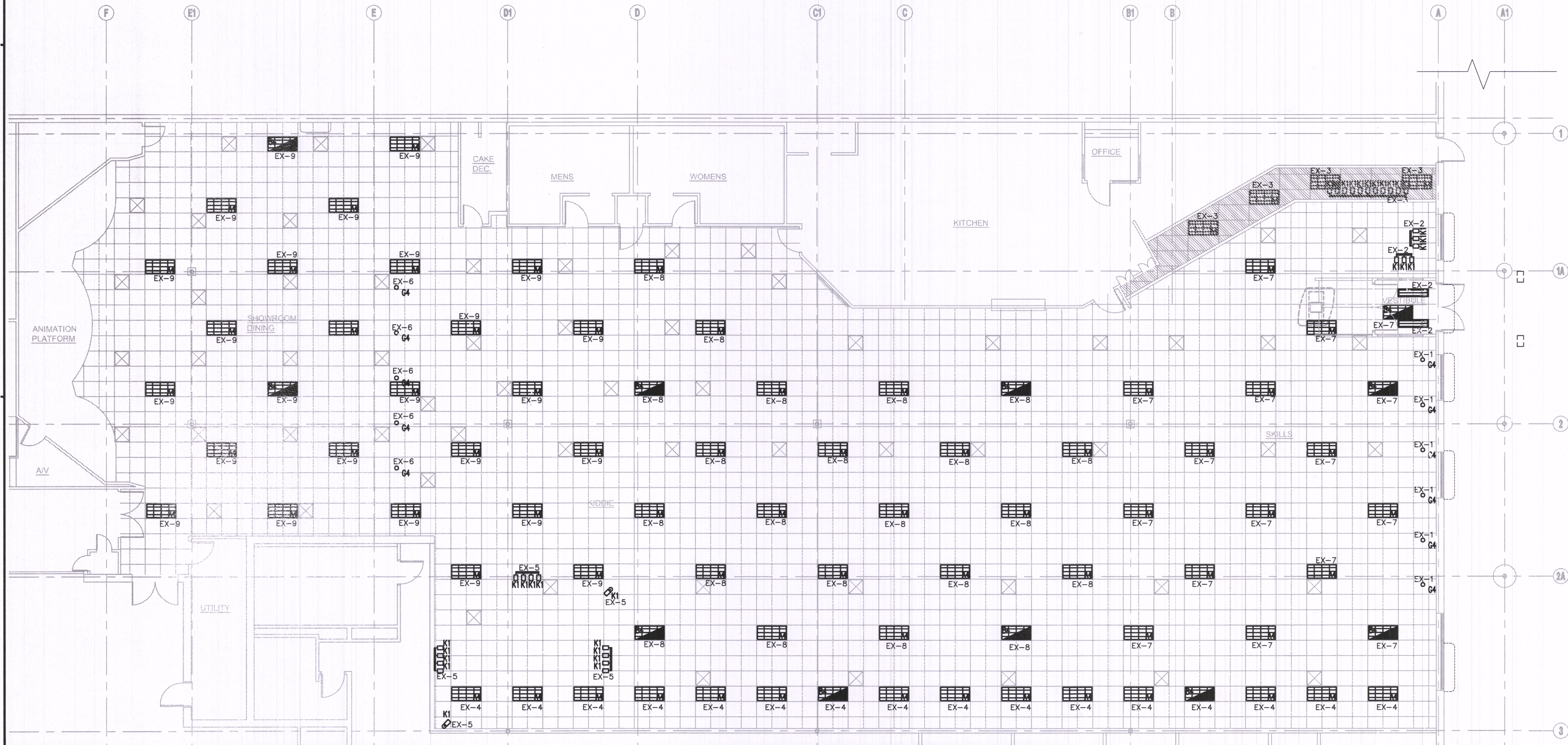
SHEET NUMBER

E1.0

ORIGINAL ISSUE DATE: 02/28/07
DATE OF THIS PRINTING: 2/27/07

01 FLOOR PLAN - LIGHTING

SCALE: 1/8"=1'-0"



LIGHT FIXTURE SCHEDULE			
LUMINAIRE INFORMATION		MISCELLANEOUS INFORMATION	
TYPE	MANUFACTURER, CATALOG AND EQUAL PRODUCT INFORMATION	WATTS	FIXTURE GENERAL DESCRIPTION AND LAMP GENERAL DESCRIPTION
A1	COLUMBIA #JTB24-332G-FSA12-3EB8-120	94 W 120 V	2 X 4 STATIC 34" X 34" X 2" SILVER STYRENE TROFFER WITH 3 LAMP ELECTRONIC BALLAST
A4	COLUMBIA #JTB24-332G-FSPC4-3EB8-120	94 W 120 V	2 X 4 STATIC 34" X 34" X 2" SILVER STYRENE TROFFER WITH 3 LAMP ELECTRONIC BALLAST
A5	LIGHTOLIER #WLRN24120SB	72 W 120 V	4" RECESSED WALL WASHER WITH ELECTRONIC BALLAST
A6	COLUMBIA #JTB24-317G-FSPC4-3EB8-120	54 W 120 V	2 X 2 STATIC LENSED TROFFER WITH 3 LAMP ELECTRONIC BALLAST
A7	LIGHTOLIER #WLRN144120SB	37 W 120 V	2" RECESSED WALL WASHER WITH ELECTRONIC BALLAST
B1	COLUMBIA #JTB24-332G-FSA12-3EB8-120-EL	94 W 120 V	2 X 4 STATIC LENSED TROFFER WITH 3 LAMP ELECTRONIC BALLAST WITH 90 MINUTE BATTERY
B4	COLUMBIA #JTB24-332G-FSPC4-3EB8-120-EL	94 W 120 V	2 X 4 STATIC 34" X 34" X 2" SILVER STYRENE TROFFER WITH 3 LAMP ELECTRONIC BALLAST WITH A 90 MINUTE BATTERY
C1	JANMAR #155SE-2X320TA-APAR38D-AB-LMP	68 W 120 V	SCOOGE UP AND DOWN SQUARE BRONZE FIXTURE LABEL FOR WET LOCATION CENTER OF PLASTER MOUNTED AT 7'-0" AFF CENTER OF FIXTURE
C2	GARDCO #803C-D-100HPS-120-360-OT-WP-RD	115 W 120 V	OUTDOOR FIXTURE WITH DIAMOND PLACA PLATE
D4	JANMAR #613E-320TA-AR40HFD-SA-LMP	34 W 120 V	SHALLOW LENSED DOWNLIGHT WITH SECULAR ALUMINUM
D5	JANMAR #613E-130TA-AR40HFD-PCH-LMP	17 W 120 V	SHALLOW LENSED DOWNLIGHT WITH SECULAR ALUMINUM
E1	WP HARRIS LIGHTING #1200WP-242PLT-HPF-EM2	64 W 120 V	EXTERIOR WALL PACK ABOVE DOOR LABEL FOR WET LOCATION WITH 90 MINUTE BATTERY
F4	COLUMBIA #CS4-232-EB8-120	65 W 120 V	4" STRAIGHT LINEER UTILITY CHANNEL FIXTURE PROVIDED BY THE COOLER MANUFACTURE AND FIXTURE CONNECTED AND LAMPED BY ELECTRICAL CONTRACTOR CENTER OF BOOTHS 6'-0" AFF TO BOTTOM OF FIX OVER TABLES 5'-0" AFF TO BOTTOM OF FIXTURE
G4	H-LITES #H-STL7803-C-97/7	100 W 120 V	TRACK HEAD OR MONOPONT REFER TO PLAN TO PROVIDE TRACK LENGTH PER PLAN OR MONOPONT BASE
K1	JUNO #T620BL	75 W 120 V	TRACK HEAD OR MONOPONT REFER TO PLAN TO PROVIDE TRACK LENGTH PER PLAN OR MONOPONT BASE
K2	JUNO #T620BL	90 W 120 V	TRACK HEAD OR MONOPONT REFER TO PLAN TO PROVIDE TRACK LENGTH PER PLAN OR MONOPONT BASE
WS1	TEXAS FLUORESCENTS #WPLJ-225	48 W 120 V	3" WALL MOUNTED FLUORESCENT MOUNTED AT 7'-0" AFF CENTER OF FIXTURE
X1	PRESCOLITE XT3R-EN-W	2.2 W 120 V	LED EXIT SIGN WITH 90 MINUTE BATTERY ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
X2	PRESCOLITE ED82	8.4 W 120 V	BATTERY BATTERY PACK SURFACE MOUNTED ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
X3	OMSSW0608	8 W 120 V	OUTDOOR ALUMINUM SPOT WITH SEALED LAMP AND SWIVEL ASSEMBLY FURNISHED WITH ROUND GASKET ALUMINUM MOUNTING PLATE MOUNTS TO 3-1/2" OCTAGONAL BOXES

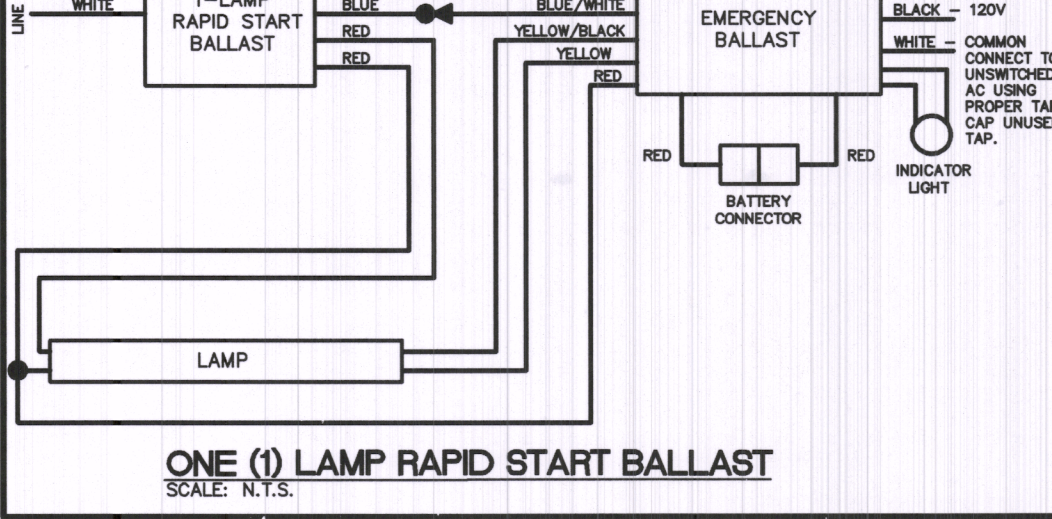
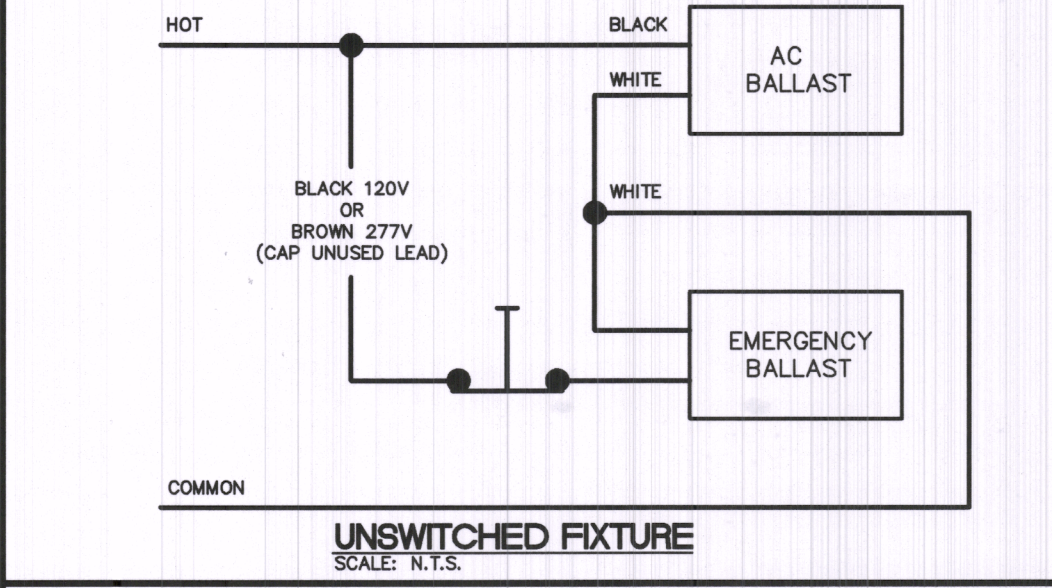
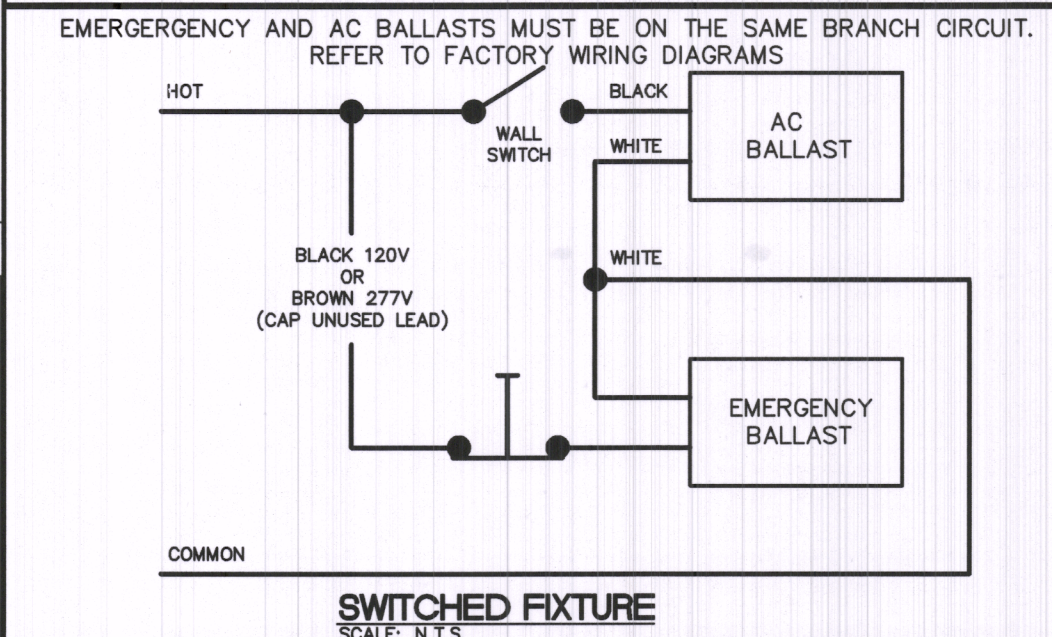
NOTES: GENERAL CONTRACTOR SHALL PROVIDE SYLVANIA LAMPS IN ALL FIXTURES VOLTAGE FOR ALL FIXTURE IS 120VOLT

LIGHTING NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
- B. PROVIDE POWER FOR PARKING LOT LIGHTS WITH MIN. #6 CONDUCTORS IN 1" CONDUITS THRU 6-POLE CONTACTOR TO CIRCUIT LA-30/32. VERIFY EXTERIOR LOCATIONS WITH CIVIL PLANS. E.C. SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATION AND CALCUL. VOLTAGE DROP. REFER TO RISER DIAGRAM ON SHEET E3.1.
- C. OUTLETS, SWITCHES, AND PLATES SHALL BE: A) STAINLESS AT FRP; B) GREY AT MARLITE, SAFETY RECEPTACLES, LEVITON 5262-SGG, RECEPTACLES, 80703 EG PLATE, C) IVORY AT ALL OTHER AREAS. D) CEILING OUTLETS SHALL BE PAINTED TO MATCH CEILING COLOR.
- D. LIGHTING PANEL INFORMATION WAS NOT AVAILABLE AT THE TIME OF THE SITE SURVEY. E.C. SHALL VERIFY EXISTING LIGHTING CIRCUITS AND CONNECT NEW LIGHT FIXTURES AS NOTED AS EX-xx.

NOTES BY SYMBOL " " " "

- 1 WP J-BOX EXTERIOR WALL AT 11'4" AFF. FOR CONNECTION TO ILLUMINATED SIGNAGE. VERIFY EXACT LOCATION WITH SIGNAGE SUPPLIER.

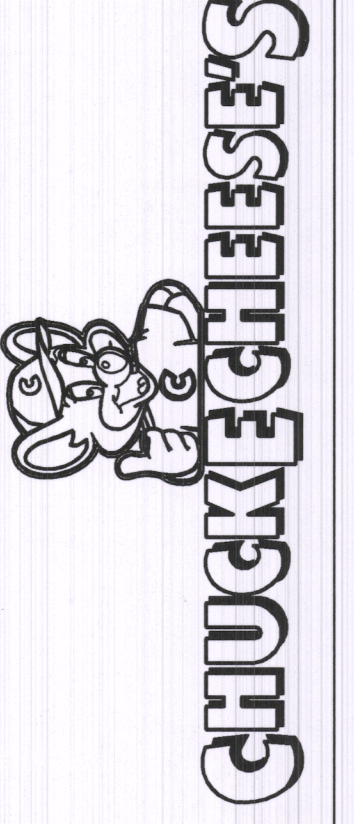


Carter-Burgess
CARTER & BURGESS, INC.
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EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



FLOOR PLAN - LIGHTING

PROJECT NUMBER
024216.006

SHEET NUMBER
E1.1

ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 2/27/07

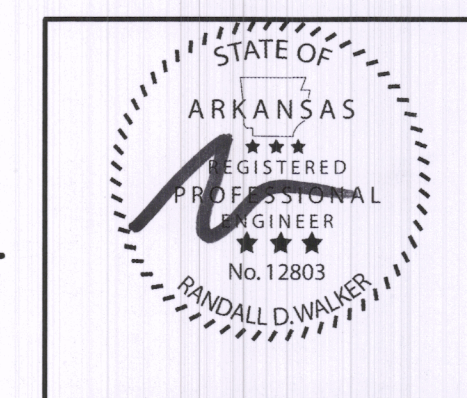
A. ALL GAMES AREA RECEPTACLES SHALL BE REMOVED AND CAPPED FLUSH WITH THE FLOOR OR WALL UNLESS OTHERWISE NOTED ON THIS SHEET.

A. ALL GAMES AREA RECEPTACLES SHALL BE REMOVED AND CAPPED FLUSH WITH THE FLOOR OR WALL UNLESS OTHERWISE NOTED ON THIS SHEET.

① EXISTING RECEPTACLE SHALL REMAIN.

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CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
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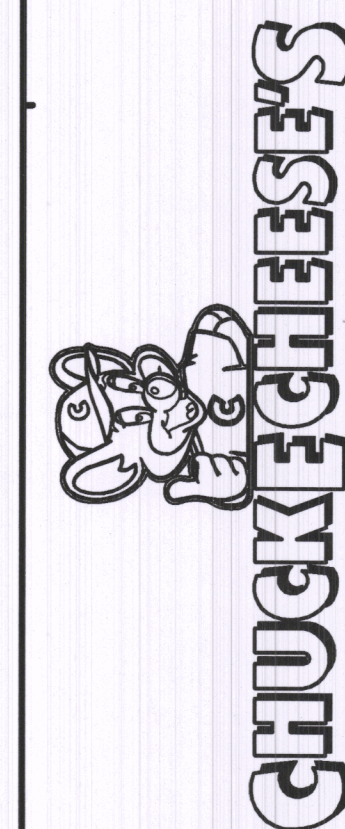
2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1000 N. MAIN ST.

1200 WALDRON
FORT SMITH, AR. 72903

CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



FLOOR PLAN - POWER DEMO

PROJECT NUMBER
024216.006

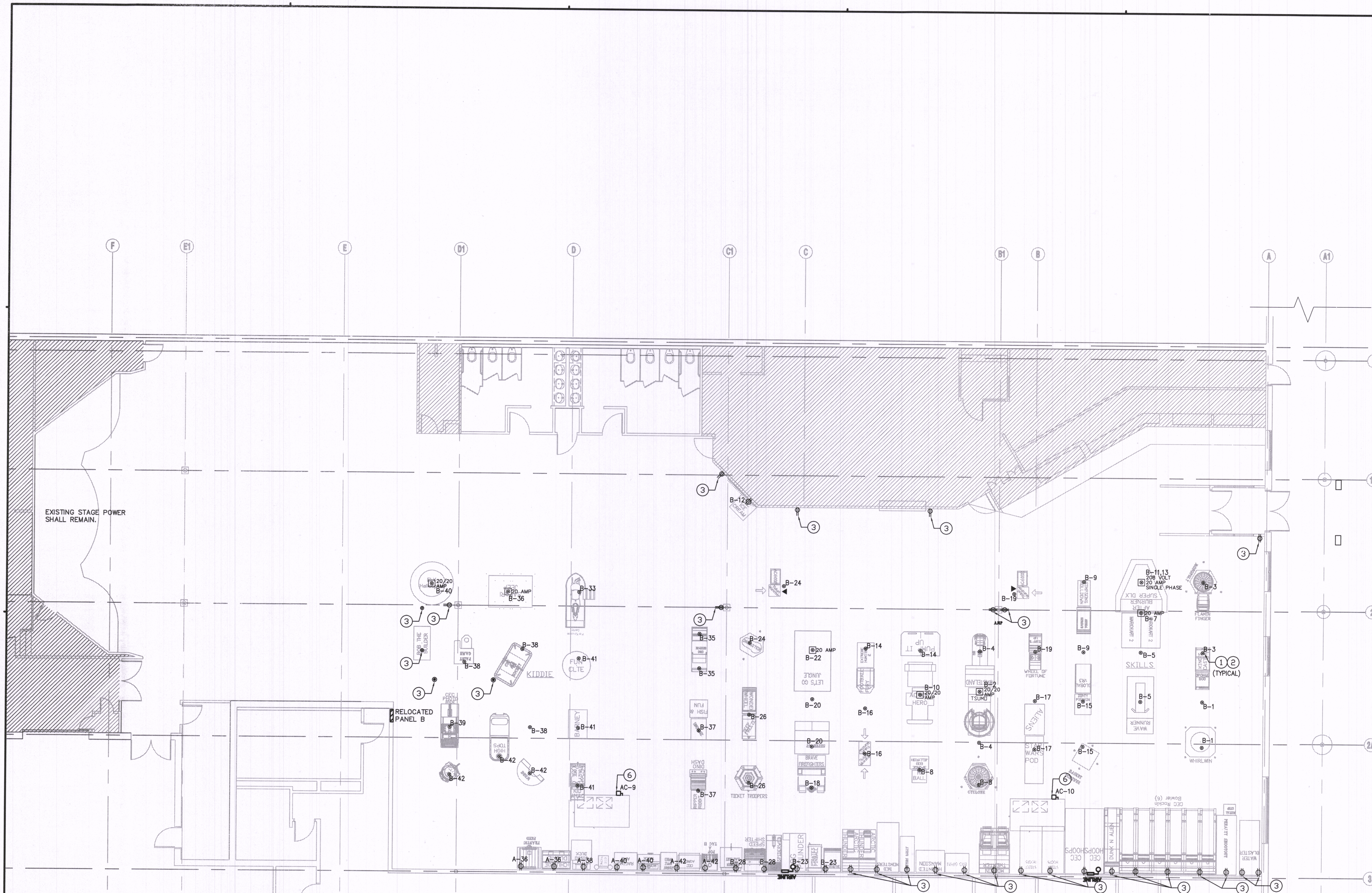
SHEET	NUMBER
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E1.2

ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 2/27/07

01 FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

SCALE: $1/8"=1'-0"$



GENERAL NOTES

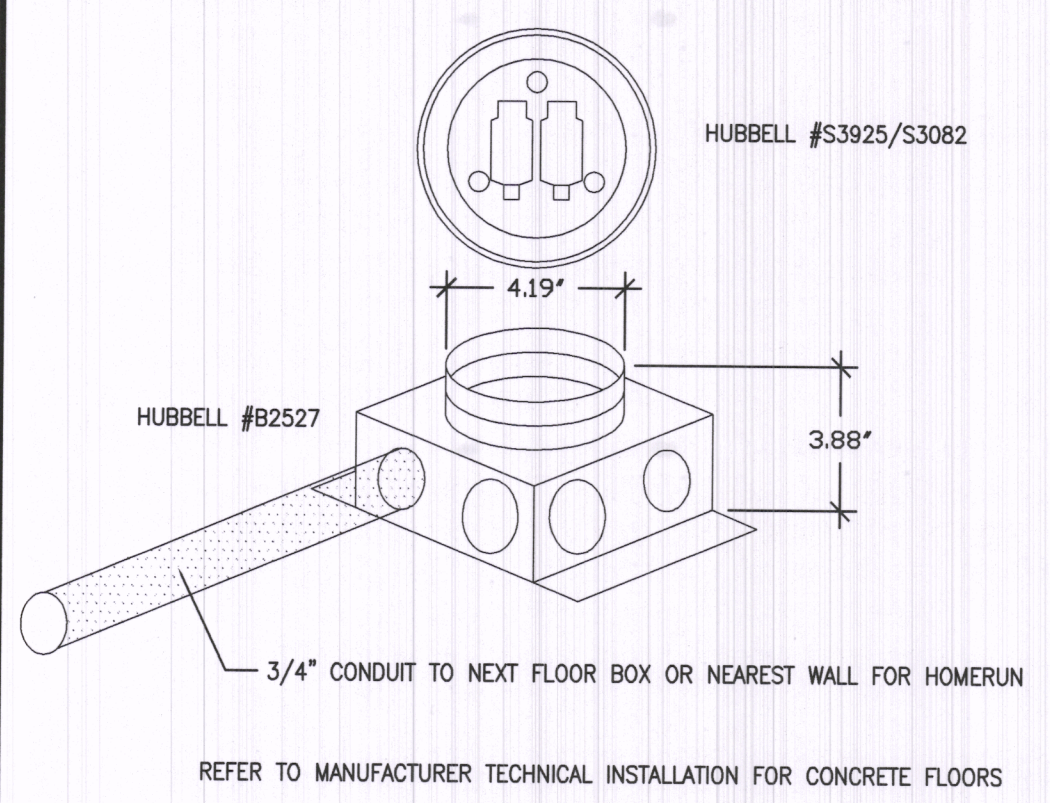
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
- WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
- VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
- DUPLEX RECEPTACLES MOUNTED WITHIN SIX FT. OF SINK OR LAVATORY SHALL BE GFCI PER NEC AND LOCAL CODES. ALL RECEPTACLES SHALL BE TAMPER PROOF.
- PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED FOR PROVIDING TELEPHONE SERVICE.
- ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CASH REGISTER WIRING AND CONNECTIONS. ALL REGISTER RECEPTACLES SHALL BE I.G. TYPE.
- ALL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
- REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
- LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER ADA REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
- REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- E.C. SHALL PROVIDE AND INSTALL ALL COMMUNICATION AND WIRING OUTLETS SUCH AS DATA/MICROS/POS, PRINTER, CREDIT CARD (VALIDATOR) ASSOCIATED WITH CHUCK E CHEESE'S SHALL BE CONNECTED TO THE CHUCK E CHEESE'S COMPUTER DATA SYSTEM INSIDE THE OFFICE.
- CONDUIT FITTING CONNECTIONS SHALL BE COMPRESSION TYPE. E.C. IS RESPONSIBLE FOR ALL TERMINATIONS.

NOTES BY SYMBOL

- FLOOR RECEPTACLES SHALL BE FLUSH MOUNTED, HUBBELL #B-2527 WITH S-3925 BRASS COVER AND CARPET RING #S-3082. VERIFY WITH PROJECT MANAGER ANY FINAL CHANGE TO GAME LAYOUT PRIOR INSTALLING. USE 3/4" C UNDER SLAB FOR ALL FLOOR OUTLETS. REFER TO DETAIL ON THIS SHEET.
- REFER TO SHEET K3.1 FOR FLOOR RECEPTACLE LOCATIONS.
- EXISTING RECEPTACLES SHALL REMAIN.
- ALL OUTLETS ACCESSIBLE TO PUBLIC SHALL BE TAMPER RESISTANT.
- OUTLETS SHALL BE CONCEALED FROM PUBLIC AND LOCATED BEHIND EQUIPMENT.
- DISCONNECT SWITCH AND RECEPTACLE SHALL BE FURNISHED WITH THE ROOF-TOP UNIT. E.C. SHALL PROVIDE CONNECTIONS TO THE NEW ROOF-TOP UNIT AS DESCRIBED ON SHEET M2.0.

ELECTRICAL

SYMBOLS & ABBREVIATIONS			
⊕	SINGLE CONVENIENCE OUTLET (SCO)	W	WATTS
⊕	DOUBLE CONVENIENCE OUTLET (DCO)	PH	PHASE
⊕	JUNCTION BOX (JB)	AFF	ABOVE FINISHED FLOOR
⊕	QUADRUPLUX	BTC	BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT
⊕	MOTOR OUTLET	BTF	BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE
⊕	SOLENOID OR CONTROL CIRCUIT	DFA	DOWN FROM ABOVE
⊕	SINGLE POWER OUTLET AS NOTED	SU	STUB UP AFF
⊕	CONVENIENCE OUTLET, 2 CIRCUIT 120/208V-1PH, 3 WIRE (OR AS NOTED)	WP	WEATHER PROOF
⊕	FLOOR OUTLET	BFC	BELOW FINISHED CEILING
⊕	LIGHT INDICATION		
⊕	CONDUIT AS NOTED		
⊕	TELEPHONE OUTLET		
⊕	PANELBOARD		
⊕	DISCONNECT SWITCH		
⊕	MOTOR SWITCH		
⊕	SWITCH AND PILOT LIGHT		
⊕	ELEVATION AFF		
A	AMPERES		
V	VOLTS		



FLOOR OUTLET DETAIL

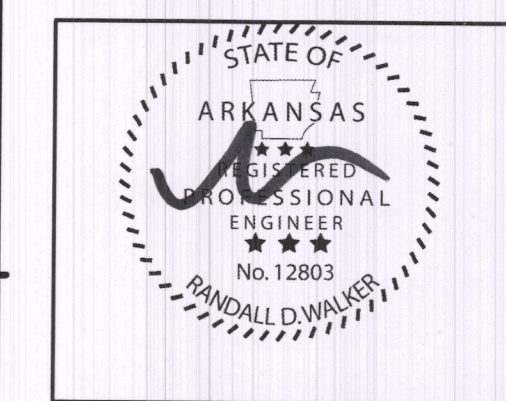
SCALE: NONE

PANEL B 100 AMP MLD VOLTS: 120/208									
EXISTING PANEL RELOCATED AS SHOWN SERVES:					GAMES				
CCT	SERVES	VA	DCP	WIRE	PH	CCT	SERVES	VA	DCP
1	WIRING			20/1 #12, #12G, 1/2" C	A	2	TSUMO	20/1 #12, #12G, 1/2" C	
3	CASTLE MONOPOLY	20/1 #12, #12G, 1/2" C	B	4	WASTELAND	20/1 #12, #12G, 1/2" C			
5	WAVE RUNNER	20/1 #12, #12G, 1/2" C	C	6	BILL CHANGERS #1	20/1 #12, #12G, 1/2" C			
7	MARIO KART	20/1 #12, #12G, 1/2" C	A	8	CYCLONERBALL	20/1 #12, #12G, 1/2" C			
9	SIMPSON'S	20/1 #12, #12G, 1/2" C	B	10	ACTION HERO	20/1 #12, #12G, 1/2" C			
11	AF TERBURNER	20/2 #12, #12G, 3/4" C	C	12	ICE CREAM	20/1 #12, #12G, 1/2" C			
13	GLOBAL VRSBASSET	20/1 #12, #12G, 1/2" C	A	14	PUMP IT UP HUNTING	20/1 #12, #12G, 1/2" C			
17	STAR WARS JALENS	20/1 #12, #12G, 1/2" C	B	18	TICKET MUNCHER	20/1 #12, #12G, 1/2" C			
19	SURF/TICKET MUNCHER	20/1 #12, #12G, 1/2" C	C	19	FIRE FIGHTER	20/1 #12, #12G, 1/2" C			
21	SKEEBALL 6.5	20/1 #12, #12G, 1/2" C	A	20	SUPER OT	20/1 #12, #12G, 1/2" C			
23	BUBBLE/COO POUNDER	20/1 #12, #12G, 1/2" C	B	22	JUNGLE	20/1 #12, #12G, 1/2" C			
25	SKEEBALL 1	20/1 EXISTING	C	24	BRASSIER	20/1 #12, #12G, 1/2" C			
27	CAN LIGHTS (HOBIE)	20/1 EXISTING	A	26	FREEZE/ROOPER	20/1 #12, #12G, 1/2" C			
29	SKEEBALL 2.5/4	20/1 EXISTING	B	28	SPIDERWEB/SURFIN	20/1 #12, #12G, 1/2" C			
31	CAN LIGHTS (GAME)	20/1 EXISTING	C	30	TICKET MUNCHER #2	20/1 EXISTING			
33	DREBY	20/1 EXISTING	A	32	TMT	20/1 EXISTING			
35	CEC SKETCH	20/1 #12, #12G, 1/2" C	B	34	TICKET MUNCHER #3	20/1 EXISTING			
37	DINOY/SURBIT	20/1 #12, #12G, 1/2" C	C	36	JEOP SAHARI	20/1 #12, #12G, 1/2" C			
39	CEL PHOTO	20/1 #12, #12G, 1/2" C	A	38	PAIN/YAR HOCKEY	20/1 #12, #12G, 1/2" C			
41	CLUB/PAINE/FRUZY BEE	20/1 #12, #12G, 1/2" C	B	40	ELY HELICOPTER	20/1 #12, #12G, 1/2" C			
			C	42	HIGH TOP/SPRIM	20/1 #12, #12G, 1/2" C			
CONNECTED									
S	CONTINUOUS	D.B.	1.25	D.D.					
U	NON-CONTINUOUS	D.B.	NEC	D.D.					
M	KITCHEN EQUIP	D.B.	0.85	D.D.					
N	HVAC	D.B.	1.00	D.D.					
A	SUB-TOTAL	D.B.		D.D.					
R	LARGEST MOTOR	D.B.	0.25	D.D.					
Y	TOTAL VA	D.B.		D.D.					
	AMPERES	D.B.		D.D.					

FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

Carter Bu.
CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
DALLAS, TEXAS 75247
PHONE: 214.920.8100
FAX: 214.688.0618



2/26/07
EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903
CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



PROJECT NUMBER
024216.006

SHEET NUMBER
E1.3

ORIGINAL ISSUE DATE: 02/26/07
DATE OF THIS PRINTING: 2/27/07

BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

SECTION 00100 - INSTRUCTIONS TO BIDDERS

1. AIA Document A701, latest Edition, "Instructions to Bidders" are included as part of these specifications as if herein reprinted in full.

a. A copy of AIA A701, 1987 may be obtained from Owner, Architect, or directly from the American Institute of Architects, 1735 New York Avenue, N.W. Washington, D.C. 20006.

SECTION 00120 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

The following supplements modify, change, delete from, or add to the instructions to Bidders (AIA A701, latest Edition) Where any article of the instruction to Bidders is modified or any paragraph, sub-paragraph, or clause thereof is modified or deleted by these Supplemental Instructions the unaltered provisions of the article, paragraph, sub-paragraph, or clause shall remain in effect.

1. Article 1, Paragraph 1.8; add:

Bidding is by invitation, from the Owner, only.

2. Article 1, add Paragraph 1.10:

1.10 The term "Architect" as used herein, shall be construed to mean the "Owner", as the Owner will administer the bidding procedures.

3. Article 4, Paragraph 4.1.1 delete and insert the following:

4.1.1 Bids shall be submitted on forms identical to the Bid Form provided by the Owner, one (1) original with original signature(s). Bids transmitted via facsimile, provided they are received by the prescribed deadline, are acceptable. Originals shall be sent by overnight service for next day delivery.

4. Article 4, Paragraph 4.2:

Delete this paragraph in its entirety, as no bid security will be required

4. Article 4, Paragraph 4.4.1:

The stipulated time period shall be construed as 45 calendar days.

6. Article 5, add Paragraph 5.3.3:

5.3.3 Voluntary alternatives, if offered by the Bidder, will not be considered in determining the lowest responsible Bid, however, the Owner reserves the right to accept or reject any or all voluntary alternatives, prior to award of contract.

7. Article 6, Paragraph 6.2:

Delete this paragraph in its entirety.

8. Article 7, Paragraph 7.1.1:

Delete this paragraph in it's entirety, as no bond will be required

Article 7, paragraph 7.2.2:

Delete unless otherwise provided, and substitute unless otherwise acceptable to the owner.

SECTION 00220 - GEOTECHNICAL DATA

1. Subsurface Report

a. The Owner has had a subsurface investigation performed by a geotechnical consultant, the results of which are contained on the structural drawings. The consultants report presents his conclusions on subsurface conditions, based on his interpretations of the data obtained in the investigation. The Contractor acknowledges that he has reviewed the consultants report and any addenda thereto, and that his Bid for excavation operations, including all necessary rock removal, is based on subsurface conditions as described in that report. It is recognized that a subsurface investigation may not disclose all conditions, as they actually exist between the time of a subsurface investigation and the time of excavation operations. In recognition of these facts, this clause is entered in the Contract to provide a means of equitable additional compensation for the Contractor if adverse unanticipated conditions are encountered, and to provide a means of rebate to the Owner if the conditions are more favorable than anticipated.

b. At any point in time during excavation operations that the Contractor encounters conditions that are different than those anticipated by the foundation consultants report, he shall immediately (within 24 hours) bring this fact to the Owners attention. Once a factor of unanticipated conditions has been brought to the attention of the Owner, and the consultant has concurred, immediate negotiations will be undertaken between the Owner and the Contractor to arrive at a change in contract price for additional work or reduction in work because of the unanticipated conditions. The Contractor agrees that his stated unit price would apply for additional or reduced work under the Contract.

c. The soil investigation report is not intended as representations or warranties of accuracy of continuity between soil borings, and furnished only as a matter of convenience to the Bidder.

SECTION 00300 - BID FORM

1. The form of proposal will be furnished separately by the Owner.

SECTION 00700 - GENERAL CONDITIONS

1. AIA Document A201, Latest Edition, "General Conditions of the Contract for Construction" are included as part of these specifications some as if herein reprinted in full.

a. A copy of AIA A201, may be obtained from Owner, Architect, or directly from the American Institute of Architects, 1735 New York Avenue, N.W. Washington, D.C. 20006.

SECTION 00800 - SUPPLEMENTARY CONDITIONS

The following supplements, modify, change, delete from, or add to General Conditions (AIA A201). Where any article of the instruction to Bidders is modified or any paragraph, sub-paragraph, or clause thereof is modified or deleted by these Supplemental Instructions, the unaltered provisions of the article, paragraph, sub-paragraph, or clause shall remain in effect.

1. Article 4, Paragraph 4.2.1: delete and substitute:

4.2.1 All references used throughout these documents requiring the Architect to act, approve, observe or otherwise use his professional judgment regarding this project, will become the sole responsibility of the Owner, who may consult with the Architect on periodic basis as the Owner deems necessary to assure compliance with the Contract Documents.

2. Article 9, Paragraph 9.4: Delete in its entirety.

3. Article 9, Paragraph 9.6.1: Delete and substitute:

9.6.1 Upon receipt of Contractor's Application for Payment, Owner will make such payment to the Contractor within 15 days or as soon as practical thereafter.

4. Article 9, add Paragraphs 9.10.5 and 9.10.6.

9.10.5 Before Owner issues final payment hereunder, the Contractor shall submit to the Owner: (a)an affidavit that all payroll and bills for material and equipment; and, other indebtedness connected with the work for which the Owner or its property might in any way be responsible, have been paid or otherwise satisfied; (b) the consent of surety to final payment; and (c) if required by the Owner, other data establishing payment or satisfaction of all such obligations, such as receipts, releases and waivers of liens arising out of the Contract Documents, to the extent and in such form as may be designated by the Owner. If any Subcontractor and/or Material man refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond, at it's expense, satisfactory to the Owner to indemnify the Owner against such lien. If any such lien remains unsatisfied after all payments are made, the Contractor shall refund to the Owner all monies that the Owner may be compelled to pay in discharging such lien, including, without limitation, all costs and reasonable attorneys' fees.

9.10.6 All waivers and subordination agreements required hereunder shall be in the form acceptable to the Owner.

5. Article 11, delete first paragraph of 11.1.1 beginning with "The Contractor" ending with "... be liable", and substitute the following:

11.1.1 Prior to the commencement of the Work, Contractor shall procure, and Contractor shall maintain, all insurance required under this Paragraph 11.1.1. Contractor shall require each Subcontractor to provide coverage adequate to protect Subcontractor and it's employees. If the terms of coverage of such policies are unacceptable to Owner, Contractor and/or subcontractor shall revise the coverage or obtain additional coverage as reasonably requested by Owner. Owner's approval of Contractor's and any Subcontractor's insurance shall not relieve or limit their liability under the Contract Documents. In the event of the failure of Contractor to furnish and maintain such insurance, then the Owner shall have the right, but not the obligation, to take out and maintain such insurance for and in the name of Contractor and Contractor shall pay the cost thereof and furnish all necessary information to permit the Owner to take out and maintain such insurance for the account of Contractor. Contractor shall not allow any Subcontractor to commence work on its subcontract until all insurances required of Subcontractor have been obtained. Contractor shall purchase and maintain such insurance as will protect it from claims set forth below which may arise out of or result from Contractor's operations under the Contract Documents, whether such operations be by Contractor or by Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

6. Article 11; delete paragraph 11.1.2 and substitute the following:

11.1.2 The liability insurance purchased and maintained by Contractor pursuant to this paragraph 11.1 shall include the types and be in the minimum amounts as follows:

(a) Workman's Compensation

(i) Workers' or workman's compensation - maximum permitted by statute, unlimited if permitted.

(ii) - Employer's Liability - 1 million.

(b) Comprehensive General Liability

Bodily injury and property damage having a combined single limit of \$1 Million and including the following coverages: (i) Comprehensive Form (ii) Premises - Operations (iii) Explosion and Collapse Hazard (iv) Underground Hazard (v) Products - Completed Operations. Hazard (which must be maintained for 2 years commencing with issuance of the final Certificate of Payment) (vi) Contractual Insurance (vii) Broad Form Property Damage (extended to apply to completed operations) (viii) Independent Contractors (ix) Personal Injury (with employees and contractual exclusions deleted)

(c) Automobile Liability (Comprehensive Form) insuring contractor for operations of all owned, hired, and non-owned vehicle limit of \$1 Million.

(d) Umbrella Excess Liability

7. Article 11, paragraph 11.3:

Delete all references to Owner furnished property insurance.

The Owner shall furnish Builders Risk Insurance including the perils of fire, extended coverage, vandalism, and malicious mischief in an amount of not less than 10% of the insurable value of all the work, and the coverage written on Builders Risk Coverage Form CP0020, Including Causes of Loss Basic Form CP0100 or Causes of Loss - Broad Form CP0120 or Causes of Loss - Special Form CP0200 on an acceptable inland Marine "All Risk" installation floater form, with a company authorized to do business in the state in which the project is located.

8. Article 12, add paragraph 12.2.2.1:

12.2.2.1 If during the Contractors one (1) year warranty after completion the Owner requests that tests be performed to determine if corrections in the Work need to be made, the expense of such tests shall be borne by (a) the Owner, if the results of the tests indicate that no corrections are necessary, or (b) the Contractor, if the results of the test indicate that corrections are necessary.

SECTION 01000 - GENERAL REQUIREMENTS

SECTION 01005 - ADMINISTRATIVE PROVISIONS

1. Work of this Contract comprises general construction, site improvements, mechanical, and electrical for a Chuck E. Cheese's Restaurant; location as identified on the Contract Drawings.

2. Schedule the work to accommodate Owner's operations during the construction period.

3. Confine operations at the project site to areas permitted by law, ordinances, permits, and the Contract Documents and do not unreasonably encumber the site with any materials or equipment.

4. Cooperate and coordinate with other contractors as required in the General Conditions

5. Establish all grades, lines, and levels necessary for execution of work including location of property lines and bench marks shown on drawings.

a. Verify all grades lines, levels and dimensions shown on the drawings and report any errors or inconsistencies in same to Owner for correction before starting work.

b. Protect all property pins, markers, and monuments from being disturbed. A registered land surveyor at Contractor's expense shall promptly replace disturbed pins, markers, or monuments.

6. Building permit fee shall be paid by Owner including other fees, costs, and taxes for utility connections and meters.

a. Water tap and sewer tap fees will be paid by Owner.

7. For products or execution requirements specified by association or trade standards, comply with requirements of the standard, except when more rigid requirements are specified or where are required by applicable code.

a. The date of the standard is that in effect as of the bid date, except when a specific date is specified.

8. Manufacturer's specifications, recommendations, instructions or other data referenced shall be construed as data contained in manufacturers printed publications current as of the bid date, except when a specific date is specified.

SECTION 01015 - OWNER FURNISHED ITEMS AND EQUIPMENT

1. Owner retains the right to place and install, in coordination with Contractor's construction schedule, as many items and/or as much equipment as he may require during the progress of the Work, before completion of the various parts of the Work. This shall not in any way evidence completion of the Work or any portion thereof, nor shall it signify Owner's acceptance of the Work or any portion thereof.

2. Categories of Items

a. By Owner. Items shown or noted "By Owner" on the drawings and/or in the specifications shall be furnished by Owner to Contractor/Subcontractor for installation by Contractor/Subcontractor as part of the construction contract. Contractor/Subcontractor shall receive, to the extent of unloading at the job site as required, store and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are: 1. Kitchen Exhaust Hood (Hoods) including Exhaust Fans, Make Up Air Fans, Motors, Starters, Heaters and Cuts. 2. Carpet (Installation accessories by G.C.) 3. Millwork package as noted on drawings. 4. Stainless steel fabrications including counters, wall panels, and corner guards, furnished and installed by Owners Food Service Contractor with final connections by Contractor. 5. All loose furnishings such as booths, table tops, chairs, stools, etc., and interior decor items.

b. Not In Contract (NIC): Items shown or noted "NIC" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract, except as described hereinafter. The Contractor shall receive, unload as required, store, and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are: 1. Kitchen equipment, including walk in cooler/freezer equipment (coils, compressors, etc.) and beer cooler boxes. This equipment shall be furnished, assembled and set in place under separate contract, with final connection of gas, water, electricity and

exhaust devices as shown on the Mechanical and Electrical drawings to be accomplished under the General Contract for Construction. 2. Sound system (to include speaker attachment and cable. 3. Signs and Signage, where and if shown on drawings (Owner installed, wired by Contractor) 4. Safes in Office. 5. POS System (includes cabling, registers and printers) 6. Backlit Awnings (Fixtures and Electrical connections by G.C.) 7. Window treatments

3. Receipt of Items

a. During the course of construction, some deliveries of equipment and miscellaneous items will be made to the job site by common carrier. Contractor shall receive and inspect items for conformance to delivery ticket(s) and for damage. If during receipt any missing or damaged items are observed, Contractor shall: 1. Make notation of any and all discrepancies on the delivery ticket(s). 2. Call delivery carrier and advise him of the problem. 3. Call the Owner's Construction Manager.

SECTION 01020 - CHANGE ORDER PROCEDURES

1. The General Conditions of the Contract for Construction, AIA Document A201, governs the work of this Section.

2. Proposal Request

A. If a change to the Work is considered by the Owner, the Architect will issue a formal request for Contractor's proposal for changes to the Contract. The request shall include data identifying the project and these paragraphs:

"You are requested to submit a detailed proposal response, within 15 days of the date of issuance of this request, covering the increase or decrease in price and/or any changes in the time for completion attributable to the following possible changes in the work of this contract."

B. This request does not authorize Contractor to proceed with the above possible changes. If contractor's proposal is acceptable to the Owner, a Change Order will be issued authorizing you to proceed.

3. Contractor Response: Respond with formal written proposal referencing Architect's request number, job name, date, specific items requested and indicate total amount of change imposed costs and construction time consideration for each request. Give each numbered request individual response. Do not lump two or more proposals on one response.

SECTION 01030 - COORDINATION

1. Coordinate the work of the various separate contractors including those identified as "by Owner" in the drawings and these specifications.

2. Notify the Owner in a timely fashion if a problem develops with the performance of the separate contractors.

3. Coordinate scheduling and work of the various trades to assure efficient and orderly sequence of installation of independent construction elements.

4. Verify the utility requirement characteristics of operating equipment are compatible with building utilities. Coordinate work of various trades regarding independent responsibilities for installing, connecting to, and placing in service such equipment.

5. Coordinate space requirements and installation of mechanical and electrical work, which are indicated diagrammatically on the architectural and engineering drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practical. Place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

6. In finished areas, except as noted otherwise, indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with final finishes.

7. Coordinate completion and clean-up of work of separate sections in preparation for substantial completion.

8. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with contract documents, to minimize disruption of Owner's activities.

SECTION 01050 - FIELD ENGINEERING

1. Contractor is responsible for layout and levels, grades and elevations; establish two separate bench marks to which easy access may be had at any time during construction.

2. Before ordering materials or doing any work, Contractor verify measurements at site and check same against drawings. No extra charge will be allowed on account of differences between actual dimensions and measurements shown on drawings. Submit any differences found to Owner's Construction Manager for resolution before proceeding with work.

SECTION 01070 - CUTTING AND PATCHING

1. Executing, cutting (including excavating), fitting or patching of work, required to: a. Make several parts fit properly. b. Uncover work to provide for installation of ill-kimed work c. Remove and replace defective work. d. Remove and replace work not conforming to requirements of Contract Documents. e. Remove samples of installed work as specified for testing.

2. Excavate cutting and patching by methods that will prevent damage to other work and will provide proper surfaces to receive installation of repairs and new work.

3. Employ original installer to perform cutting and patching for exposed finished surfaces.

4. Refinish entire surface as necessary to provide an even finish.

a. Continuous surfaces: To nearest intersection.

b. Assembly: Entire refinishing.

SECTION 01090 - PRECONSTRUCTION MEETING

1. Owner will administer pre-construction conference for execution of Owner-Contractor Agreement and exchange of preliminary submittals.

2. Owner will administer mobilization at project site for clarification of Contractor responsibilities in use of site and for review of administrative procedures.

3. Attendance: Job superintendent, representative of the Contractor's home office, major subcontractors and suppliers, and Owner representative. Others as appropriate to agenda topics.

4. Suggested Agenda: Review progress schedule and adjustment thereto, delivery schedules, submittal, maintenance of quality standards, pending changes and substitution and other items affecting progress of work.

5. Contractor shall schedule, organize and chair any subsequent Project Meeting during normal working hours.

SECTION 01300 - SUBMITTALS

1. Deliver submittals to Owners Project Manager, unless otherwise directed.

2. Identify submittals with Contractor's name, project name/location and date of submittal.

3. Make any corrections to the submittal required by Owner and resubmit until approved. Direct specific attention in writing to revisions on re-submittals other than the corrections requested by Owner on previous submittals.

4. Construction Schedule

a. Within ten (10) days after execution of the Contract or the date of written notice to commence the work, whichever is earlier, submit three (3) copies of a detailed construction schedule for approval.

b. Schedule shall graphically show the relationship and interdependence of all activities, necessary to fully complete the work and shall show the sequence in which each activity is to be accomplished. The detail of information shall be such that duration times of activities shall normally range from one (1) to fifteen (15) days.

c. Schedule shall give description of each activity, show its duration in calendar days and reference its start and finish dates to calendar dates.

5. Shop Drawing and Samples

a. Submit all drawings, diagrams, illustrations, schedules, performance charts, instructions, specifications and other product data illustrating portions of the work as required by the specification sections. Such submittals, whether or not referred to as shop drawings, shall comply with the requirements for shop drawings hereinafter prescribed. Unless otherwise noted in the specifications sections, submit a minimum of three (3) sets of shop drawings to architect. Two (2) sets will be returned to Contractor unless otherwise requested. No drawing will be accepted until all shop drawings have been submitted.

b. Unless the precise color and pattern is specifically specified in the specifications sections, and whenever a choice of color or pattern is available in a specified predict, submit accurate color and pattern charts and samples for review and selection.

c. Review, stamp with Contractor approval, signature, and submit within thirty (30) days after execution of the Contract of the date of written notice to commence the work, whichever is earlier, all shop drawings and samples. Shop drawings or samples submitted without Contractor's approval stamp will be returned without review. Submit shop drawings and samples in an orderly sequence so as to cause no delay in the work of other contractors.

d. Shop drawings and samples will be reviewed and approved by Owner to determine in general if they are in compliance with the Contract Documents. Such approval shall not relieve Contractor of responsibility for any deviations from the requirements of the Contract Documents nor from the responsibility for errors or omissions in the shop drawings or samples.

e. Do not commence any portion of the work until the submittal has been approved as prescribed herein. All portions of the work shall be in accordance with approved shop drawings or samples.

6. Schedule of Values

a. Submit a schedule of values for various portions of the work within ten (10) days after execution of the Contract or the date of written notice to commence the work, whichever is earlier. Show the amounts of the Contract Sum allocated to each portion of work, on AIA G702.

7. Certificate of Compliance

a. Submit in duplicate, certificates of compliance for each product specified, prior to installation of the applicable product.

b. Certificates of compliance shall include certified laboratory test reports, manufacturers certificates or other evidence sufficient to verify compliance with the products specified.

SECTION 01400 - QUALITY CONTROL

1. Perform work in the most workmanlike manner and according to best standard practices. All work shall be free from faults and defects in workmanship.

2. Contractor shall be solely responsible for quality control of the work and shall maintain quality control over suppliers, manufacturers, products, services, site conditions and workmanship, to produce work of specified quality.

3. Testing and inspection, where required by the specification sections, shall comply with the specific requirements of the applicable specification section and the general requirements contained herein.

4. All testing and inspection whether required by the specification section or by laws, ordinances, rules, regulations, codes or orders of any public authority having jurisdiction or whether performed by Contractor for quality control shall be at contractors expense unless otherwise indicated in the Contract Documents.

5. Where the specifications section require testing or inspections by a testing laboratory, engage a reputable, independent testing laboratory specializing in the required services unless the testing or inspection is indicated as furnished by Owner. Testing laboratory shall be approved by the Owner.

6. Secure required certificates of testing, inspection or approval and promptly deliver to Owner.

7. Promptly replace or correct all work found not to be in compliance with the requirements of the Contract Documents and the requirements of any public authority having jurisdiction so as not to delay the work or the work of other contractors regardless of how such failure to comply may be revealed. Replacement and correction shall be expedited as required to maintain interim contract completion dates and the full completion date.

SECTION 01500 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

1. All temporary facilities and services shall be furnished in strict accordance with existing governing regulations.

2. Sanitary Facilities: The Contractor shall be provided temporary sanitary facilities for the workmen.

3. Water Facilities: The Contractor shall furnish and pay for temporary water for the purpose of construction as required.

4. Temporary Heat: The Contractor shall furnish, install and maintain temporary heat, as work requires. This temporary heat shall provide a temperature differential of approximately 40 degrees F using portable space heaters.

5. Power and Light:

a. The Contractor shall arrange for temporary power for tools and lights as required, to the construction site.

b. Cost of the electrical power consumed for the temporary service for tools and lights shall be borne by the Contractor. Cost of distributing power to the construction site shall be borne by the Contractor.

c. The Contractor shall remove temporary power only when permanent service is arranged and approved.

6. Remove all temporary facilities upon completion of the work or when no longer required.

7. Provide plumbing, temporary drainage, water diversion, weather protection and controls as required to ensure no delay in the work or the work of other contractors.

8. Contractor shall provide Field Office with (2) telephones, (1) Fax and (1) portable heating and cooling. Location shall be at the Owner's discretion.

SECTION 01600 - MATERIALS AND EQUIPMENT

1. Where acceptable manufacturers, are listed in the specification sections, obtain materials and equipment in compliance with the requirements specified from one of the manufacturers listed.

2. Components required to be supplied in quantity within a specification sections shall be the same, supplied by same manufacturer and shall be interchangeable.

3. All materials and equipment shall be new, unless otherwise specified, and of first class quality, free from any faults or defects including blemishes, dents, imperfections, rust, and stains. Do not incorporate faulty or defective materials or equipment into the work.

4. Handle and store materials and equipment in accordance with manufacturers' and suppliers' recommendations and store packaged materials and equipment in original, undamaged condition with manufacturers label and seals intact.

5. No substitutions for the materials and equipment specified shall be made unless written approval has been given as required in the General Conditions by Owner. Substitutions will be considered only if Owner receives the advantage of lesser cost with no increase in quality, or earlier completion date or both.

SECTION 01650 - TESTING, ADJUSTING, AND BALANCING OF SYSTEMS

1. Test piping systems as required by individual Sections of the Specifications and as required by regulatory authorities having jurisdiction.

2. Balance air delivery systems, heating, ventilating and air conditioning.

3. Qualifications: Prior to start of work, submit name of organization proposed to perform services. Designate managerial responsibilities for coordination of entire testing, adjusting, and balancing. Submit documentation to confirm organization and personnel qualifications.

4. Final Reports: Fifteen days prior to Substantial Completion, submit three copies of final reports. Submit reports of testing, adjusting, and balancing which is postponed due to seasonal, climatic, occupancy, or other reasons beyond Contractor's control, promptly after execution of those services.

5. Comply with procedural standards of certifying association under whose standards service will be performed.

6. Notification: Notify Architect three days prior to beginning of testing operations.

7. Forms: Each Form shall: Bear signature of recorder, and that of supervisor of reporting organization.

8. Contractor shall prepare each system for testing and balancing and notify testing organization seven days prior to time system will be ready for testing, adjusting, and balancing.

9. Provide instruments required for testing, adjusting, balancing operations. Make instruments available to Architect to facilitate spot checks during testing. Retain possession of instruments and remove at completion of services.

10. Verify installation of system to be tested is complete and in continuous operation. Verify ambient conditions and related facilities are in full operation. Verification shall be submitted to the Architect in writing.

11. Provide testing in accordance with these Specifications and with requirements of regulatory authorities, test piping systems to pressures and/or water head required for periods required. If leaks are discovered in pipes, fittings and/or accessories, in particular system being tested, repair leaks and repeat procedure until no leaks can be found while system is being tested subject to original requirements.

12. Balancing Air Systems: Balance to quantities shown on the Drawings. Record air quantities at each grille or outlet. Instruments and procedures shall comply with grille manufacturer's recommendations and the latest edition of Sheet Metal and Air Conditioning Contractor's National Association Manual. Air balancing shall be performed, report forms submitted and accepted by Architect before system will be accepted.

13. Water Piping Systems: Water piping systems shall be properly tested to a hydrostatic pressure of one hundred and fifty pounds per square inch (150 psi) gauge minimum, or as required by local regulations, for a period of not less than twelve (12) hours. During this test period, all leaks in pipe, fittings, and accessories in the particular piping system which is being tested, shall be stopped and the hydrostatic test shall again be applied. This procedure shall be repeated until, for an entire twelve (12) hour period, no leaks can be found while the system is being tested and subject to the pressure mentioned above.

14. Sanitary Drains: System shall have all outlets temporarily plugged. The pipes shall be filled with water, testing the system in section, such that no sections shall be tested with less than a ten (10) foot head of water. The same testing procedure shall apply to the downspout piping. If, after twenty-four hours, the level of the water has been lowered by leakage, the leaks must be found and stopped and the water level shall again be raised and the test repeated until, after a twenty-four (24) hour retention period, there shall be no perceptible lowering of the water level of the system tested.

SECTION 01700 - CONTRACT CLOSEOUT

1. During the progress of the work maintain a set of drawings at the project site for preparing record drawings. Neatly record all changes in the work and record specific locations of work shown mathematically on the drawings. In addition, record the following on mechanical and electrical drawings:

a. Location of concealed water and electrical services, water piping, sewers, wastes, vents, ducts, conduit, and other piping by indication of measured dimensions to such line from readily identifiable walls or corners of buildings.

CONTINUE

c. Soil within 5 feet of building perimeter: One gallon per 2.5 cu. ft.

6. Apply extra treatment to structure penetrations, pipe, ducts, and other soil penetrations.

7. Coordinate soil treatment at foundation perimeter with finish grading to prevent disturbance of treated soil. Re-treat disturbed treated soil.

SECTION 02510 - ASPHALTIC CONCRETE PAVING

1. Provide materials and methods conforming to State Highway Department Standards

2. Use only materials that are furnished by a bulk asphaltic concrete producer regularly engaged in production of hot-mix, hot-laid asphaltic concrete, complying with ASTM D3515.

3. The paving contractor shall provide a written guarantee for a period of eighteen (18) months from date of substantial completion, that all labor and material furnished and all work performed are in accordance to the contract documents, and any imperfect workmanship and/or materials will be replaced and/or repaired at no additional cost to the Owner.

4. Any work noted on the drawings or specified herein to encroach on right-of-way shall conform to the regulations of the agency having jurisdiction.

5. The subgrade in areas to be paved shall be true to line and grade, free from all loose rock, foreign materials, and shall have a dry and properly prepared surface, compacted with a mechanical tamper or proof roll with heavy pneumatic-tired equipment immediately prior to placing the dense graded aggregate base course. Any soft or unstable zones detected thereby should be undercut to firm soil and backfilled with engineered earth fill, compacted as specified. The subgrade for all pavements shall be uniformly stable before any dense graded aggregate base is installed.

6. Pavement make-up, unless otherwise noted on site plan or recommended in soil report.

a. Base course aggregate: 8" DGA, compacted thickness.

b. Binder course: 2" compacted thickness.

c. Surface course: 1" compacted thickness. Provide a dense graded mix to produce a tight, non-porous finished surface.

7. The base course shall consist of dense graded aggregate, plant mix; placed and compacted in accordance with the local Highway Department Standard Specifications.

a. Compact aggregate base course materials to not less than 95 percent of maximum density, ASTM D1557, Method D.

8. Apply prime coat over dry aggregate base course at a rate of 0.20 to 0.50 gal. per sq. yd. prior to placement of asphaltic concrete paving.

9. Place asphaltic concrete paving immediately after prime coat has cured and dried.

a. Place asphaltic concrete on prepared aggregate base course and compact to established required density, thickness and elevations.

b. Spread and strike-off asphaltic concrete mixture using self-propelled paving machine except that inaccessible and small areas may be placed by hand. Spread a mixture at a minimum temperature of 225 degrees F.

c. Place paving in strips not less than 10 feet wide, unless otherwise indicated.

d. Ensure that joints made during asphaltic concrete paving operations are straight, vertical, tightly bonded, free of broken or loose material, and have same texture, density and smoothness as adjacent paving.

e. Compact each asphaltic concrete paving course with self-propelled rolling equipment. Start compaction as soon as paving will bear equipment without checking or undue displacement.

f. Carry out compaction in three operations (breakdown or initial rolling, second rolling and finish rolling) in pass sequence to produce smooth surfaces of uniform texture, free from depressions ("bird baths") and roller marks.

g. Compact with hand tampers in areas not accessible to rolling equipment.

10. Compact asphaltic concrete paving to 100 percent of the laboratory compacted density determined in accordance with ASTM D1188.

11. Do not allow vehicular traffic on newly paved areas until surface has cooled to atmospheric temperature.

SECTION 02575 - PAVEMENT SEAL COAT

1. If noted on the construction documents, existing pavements, to remain shall receive a sand/surfury seal per local state highway specifications.

a. Slurry seal shall consist of emulsified asphalt (SS1H or CSS-1H), fine aggregate, Portland cement and water, applied at 16 pounds per square yard (base on dry aggregate weight) but no less than 1 1/16" thickness.

SECTION 02580 - PAVEMENT MARKING

1. Marking paint shall conform to AASHTO M248 (chlorinated rubber-alkyd), Type III. Apply as 4" wide stripes (or symbols as indicated) in one coat of 125 sq. ft. per gallon. Color shall be white. Handicapped devices shall comply with the latest provisions of the Americans with Disabilities Act.

2. Dust, clay, silt, and excess sand shall be removed by sweeping from pavement to be marked prior to application of paint.

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN PLACE CONCRETE (INCLUDES EXTERIOR CONCRETE)

1. Cast-in-place concrete work including all labor, tools, material, equipment and services necessary to properly place and complete all interior and exterior cast-in-place concrete, formwork, reinforcement, joints and embedded items, finishing, curing and concrete testing.

2. Unless otherwise shown or specified, the work shall conform to the following standards of the American Concrete Institute.

ACI 214, Recommended Practice for Evaluation of Strength Tests Results of Concrete.

ACI 306R, Cold Weather Concreting

ACI 315, Manual of Standard Practice for Detailing Reinforced Concrete Structure.

ACI 318, Building Code Requirements for Reinforced Concrete.

ACI 347, Recommended Practice for Concrete Formwork.

ACI 305R, Hot Weather Concreting.

ACI 211.1, Standard Practice for Selecting Proportions for Normal, Heavyweights and Mass Concrete.

ACI 304R Guide for Measuring, Mixing, Transporting and Placing Concrete.

3. Materials:

a. Portland Cement: ASTM C150, Type 1

b. Aggregates: ASTM C33

c. Water: Clean, fresh, and potable

d. Air Content: 5% to 8%

e. Air entrainment admixture: ASTM C260, No other admixtures, including calcium chloride and fly ash are permitted.

f. Reinforcing steel:
1) Bars: ASTM A615, Grade 60 (Grade 40 for stirrups and ties)
2) Fabric: ASTM A185

g. Curing compound: ASTM C309, Type 1, Class A, Sonabond "Kure-N-Seal" or equal; two coats for exposed concrete forms.

h. Control joints filler: ASTM D1751, J & P "Tex-Lite Fiber" or equal, 1/2" thick.

i. Forms: Steel, wood or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects. Use flexible spring steel forms or laminated boards to form radius bends as required. Coat forms with a non-staining form release agent that will not discolor or deface the surface of the concrete.

j. Vapor Barrier: Polyethylene sheet, ASTM D2103, 6 mil. thick.

k. Grout: "Masterflow 928" by Master Builders or equal.

4. Concrete Mix:

a. Ready mixed per ASTM C94.

b. Strength - per construction plans or minimum as follows:
1) Building = 3,000 psi @ 28 days
2) Exterior (exposed) = 3,000 psi @ 28 days unless noted differently on civil drawings.

c. Slump:
1) 5-inch maximum for general use.
2) 1 inch maximum for flat work.

a. Air entrainment: 5% by volume, +/- 1%.

b. Provide mix design to Owner for review.

5. Verify lines, levels, and measurement before proceeding with formwork.

6. Coordinate work of other sections in forming and setting openings, slots, recesses, chases, sleeves, bolts, anchors, and other inserts.

a. Exposed corners shall be chamfered 3/4" unless shown otherwise.

7. Place, support, and secure reinforcement against displacement per ACI 315.

8. Install vapor barrier under interior floor slabs on fill. Lap joints minimum 6-inches and seal. Do not disturb vapor barrier while placing reinforcement.

a. Coordinate the installation of joint material and moisture barriers with placement of forms and reinforcing steel.

9. Deposit concrete, continuously, or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints. Deposit concrete as nearly as practical to its final location to avoid segregation.

10. Consolidate placed concrete by mechanical vibrating equipment supplemented by hand spacing, rodding, or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI recommended practices.

11. Placing Concrete Slabs: Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.

a. Bring slab surface to correct level with straightedge and strike off. Use bull floats or darbies to smooth surface, free of humps and hollows. Do not disturb slab surface prior to beginning finishing operations.

b. Maintain reinforcing in proper position during concrete placement.

c. Forms may be removed after curing at not less than 50 degrees F. for 24 hours provided concrete is hard enough to not be damaged by form removal operations, and continued curing and protection is maintained.

12. Finishing interior slabs: Float finish per ACI 301. Power trowel to produce a smooth surface, relatively free of defects. After the surface has hardened to a point that it may be walked on without leaving imprints, power trowel the floor slab to produce a dense, smooth surface and to burnish a uniform high sheen on the surface.

a. Where ceramic or quarry tile occurs, provide a fine, light broom finish to aid in bonding of tile to slab.

13. Finishing exterior slabs: Finish slabs to true planes and provide light broom finish as acceptable to Owner. All exterior exposed concrete shall receive an anti-splatter treatment of 50%(by volume) boiled linseed oil and 50% (by volume) mineral spirits, per AASHTO M233. First application: 40 sq. yds. per gallon and allow to completely dry. Second application: 60 sq. yds. per gallon and allow to completely dry.

a. Vertical surfaces shall be rubbed with medium coarse carborundum stone and water to provide a smooth texture of uniform color, form mark free.

b. All concrete surfaces shall be stripped and rubbed same day.

14. Tolerance: Finished slabs shall be level with tolerance of 1/8" in ten feet, when tested with ten foot straight edge placed on the surface at not less than two different angles. Uniformly slope surface to area drain.

15. The Contractor shall engage and pay for a testing laboratory for strength and slump test.

a. Test specimens for compressive strength in accordance with ASTM C31 and C39.

b. Make at least one strength test for each 100 cubic yards, or fraction thereof, of each mix design of concrete placed in any 1 day.

c. Prepare five (5) test cylinders from each of the above samples in accordance with ASTM C32 for laboratory cured specimens. Test two (2) cylinders at age 7 days for preliminary indication of design strength. Test two (2) cylinders at age 28 days for the basis of quality control as specified by ACI 318. Retain one (1) cylinder for 45 day testing if required.

d. Determine slump of the concrete sample for each strength test in accordance with ASTM C143.

e. Determine percent of air content in accordance to ASTM C231 or ASTM C173.

16. Average of any three consecutive 28-day strength tests shall be equal to or greater than specified strength, and not more than 10% of tests shall have values less than specified strength. In no case shall a test have a value less than 90% of specified strength.

DIVISION 4 MASONRY

SECTION 04200 - CONCRETE UNIT MASONRY

1. Concrete Masonry Units:

a. Concrete masonry units shall be from one manufacturer, of uniform texture and color for each type required.

b. Concrete masonry units: Nominal face dimensions of 8 inch x 16 inches long, unless otherwise indicated; complete with corners, bases, bond beams, lintels and fillers to match concrete masonry units; 1-1/4" minimum face shall be cured in a moisture-controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM C90, Grade N, Type I.

c. When concrete unit masonry units are removed from the manufacturers storage area, each cube or block shall be covered on top and all sides with a waterproof protective material. Protective covering shall be applied prior to the blocks being exposed to the weather.

2. Mortar: ASTM C476, Type S, 1800 psi at 28 days.

a. Portland Cement: ASTM C150, Type I.

b. Aggregates: ASTM C144, standard masonry type; clean, dry and protected against dampness, freezing and foreign matter.

c. Hydrated Lime: ASTM C207, Type S.

d. Water: Clean and free from injurious amounts of oil, alkali, organic matter or other deleterious material.

e. Use no admixtures unless written approval is obtained from Owner.

3. Grout: Masonry mortar, consistency which will completely fill all spaces intended to receive grout.

4. Reinforcing Bars: 60 ksi yield grade; deformed billet steel bars, ASTM A615.

5. Horizontal reinforcement: Truss type ASTM A82 hot dip galvanized steel wire after fabrication ASTM A153 Class B2 with not less than #9 side rods with #9 cross rods.

a. Du-O-Wal, AA Wire Products, Heckman, or equal.

6. Maintain materials and surrounding air temperature to minimum 50 degree F. prior to, during and 48 hours after completion of masonry work or until complete hydration of the mortar is achieved whichever is greater.

7. During freezing or near freezing weather provide adequate equipment or cover to maintain a minimum temperature of 50-degree F. and to protect masonry work completed or in progress.

8. Establish lines, levels, and coursing. Protect from disturbances.

9. Thoroughly mix mortar ingredients, in quantities needed far immediate use.

a. If necessary, re-temper mortars to replace water lost by evaporation, but do not re-temper or use mortar after two (2) hours from the initial mixing time.

10. Place masonry true, level and plumb in accordance with required lines and levels. Do not wet concrete masonry units. Align all vertical cells to maintain a clear, unobstructed system for grouting.

11. Full bond external and internal corners and intersections.

a. Buttering corners of joints and deep or excessive furrowing of mortar joints will not be permitted.

12. Do not shift or tap masonry after mortar has taken initial set. Where adjustments must be made, remove mortar and replace.

13. Lay out masonry so not less than one-third (1/3) of the face of a unit is exposed on the face of the wall at openings, corner or offsets.

14. Perform jobsite cutting of masonry with proper power tools to provide straight and true, unchipped edges.

15. Ensure masonry courses are of uniform height. Make vertical and horizontal joints equal and of uniform thickness. Lay in full bed of mortar, properly jointed with other work.

16. Remove excess mortar and projections. Take care to prevent breaking masonry corners.

17. Lay all masonry units in running bond course / block unit and 1 mortar joint to equal 8 inches. Form concave mortar joints, where exposed; strike flush where concealed.

18. Provide temporary bracing during masonry erection. Maintain in place until building structure provides permanent bracing.

19. Place masonry reinforcing and anchorages for concrete unit masonry as follows:

a. Provide single wythe walls with horizontal masonry reinforcing in every second mortar joint.

b. Place horizontal masonry reinforcing in first and second joint above and below openings. Place continuous in first and second joint below top of walls.

c. Fully reinforce corners and intersections, using prefabricated corner and "V" reinforcement sections.

d. Lap masonry reinforcing splices minimum 6 inches.

e. Place vertical reinforcing at Indicated centers. Grout cores solid in 4'-0" maximum lifts.

20. As work progresses, build-in anchor bolts, and other items embedded in masonry.

21. Remove excess mortar and smears upon completion of masonry work.

a. Clean soiled surfaces of all masonry work exposed to view using sand and water, fiber brushes and soap as required. Remove all dirt, mortar, stains and other defacements.

22. Clean and remove all mortar droppings from floor.

23. Cover tops of walls when work is not in progress.

SECTION 04210-BRICK MASONRY

1. Standards

a. American Society for Testing Materials (ASTM)

b. Brick Institute of America (BIA). "Technical notes on brick construction"

2. Modular face brick: ASTM C-216, Grade SW, Type FBS. Specific manufacturer, plant, product, and blend as noted on finish schedule on the drawings.

3. Accessories

a. Joint Reinforcing: Hohmann & Bernard, Inc., Fort Worth, TX, #CW7 "Corrugated Wall Ties" galvanized, 7/8 inch wide x 22 ga., lengths as required for 2 1/2" minimum embedded tie.

b. Miscellaneous: As shown on the drawings or as required to provide masonry installations which are well tied.

4. Mortar

a. Type: Minimum compressive strength of 1800 psi; ASTM C476, Type M or S. Masonry cement will not be allowed.

b. Materials:
1. Portland Cement: ASTM C150, Type 1, one brand only.
2. Hydrated Lime: ASTM C207, Type S
3. Sand: Well screened, clean, hard, siliceous particles free from loam, alkali, salt, organic matter and other impurities; composed of grains of varying size which pass an 8-mesh screen, uniformly graded from coarse to fine.

c. Color: Standard white mortar unless noted otherwise on finish schedule on drawings. Submit samples for Owner's approval.

5. Grout

a. Minimum compressive strength of 2500 psi; ASTM C476, Type M or S.

6. Conditions

a. Hot Weather Installation: Protect masonry, erected when ambient air temperature is more than 90 F, in shade, and relative humidity is less than 50%, from direct exposure to wind and sun for 48 hr after installation, and rain for 12 hours after installation.

b. Cold Weather Installation: Do not build upon frozen work. Before erecting masonry during temperatures below 40 F., submit a written statement and receive acceptance of methods proposed to heat masonry materials and protect masonry from freezing. Do not lay masonry at temperatures below 35 F, unless authorized in writing.

7. Preparation (Mortar)

a. Accurately measure and mix mortar materials with water to produce wettest workable consistency possible. Place mortar in final position within 2 1/2 hr after mixing; discard mortar not used or that has started to set within this time.

8. Masonry Construction

a. General: Do not lay units having water or frost film on surfaces. Lay plumb, true to line, with level courses accurately spaced. Keep bond pattern plumb throughout. Corners and reveals plumb and true. Show vertical joints tight. Adjust each unit to final position while mortar is soft and plastic. Remove any unit disturbed after mortar has stiffened and relay with fresh mortar.

b. Laying Standard Units: Wet in such manner that each unit is nearly saturated, surface dry when laid. Do not use brick that is cored, recessed, or has other deformations where deformations will be exposed to view. Fill joints completely with mortar. Lay with better face of brick exposed. Lay in 1/8 turning bond and special relief and patterns shown on the drawings. Joints not to exceed 3/8 inches. Form deep holes with sash cord in head joints, but not more than 2" o.c.

c. Cutting and Fitting: Use, wherever possible, full units of proper size in lieu of cut units. Cut edges clean, true, and sharp. Carefully cut, form, or otherwise neatly make openings for recessed items and for electrical, plumbing, or other mechanical installations so that wall plates, cover plates, or escutcheons will completely conceal openings and will have bottoms in alignment with lower edge of masonry joints.

d. Embedded Items: Point openings around flush, mounted electrical outlet boxes in wet locations flush with mortar including flush joint above box. Build in anchors, ties, wall plugs, accessories, flashings, pipe sleeves, and other items as the masonry work progresses. Anchors and ties fully embedded in mortar.

e. Unfinished Work: Stop back for joining with continuing new work. Resort to toothing only when specifically accepted. Before laying new work, remove loose mortar, and clean exposed joints; dampen surfaces of brick after cleaning.

f. Joining:

1. Ties: Unless noted otherwise on drawing finish schedule: Clipped joints; mortar thoroughly compacted and pressed against edges of units. Tool when mortar is thumbprint hard. Finish tooled joints to uniformly straight and true lines and surfaces, smooth, and free of tool marks.

2. Width: Equal to difference between actual and nominal dimensions of units in either height or length; average width of any three adjacent joints not less than 1/4 inch nor more than 1/2 inch. Vertical joints; same width except for inconspicuous variations required to maintain bond.

9. Completely remove mortar daubs or splashes from exposed masonry surfaces before setting. Clean masonry surfaces, other than removing excess surface mortar, only after mortar has hardened. Leave surfaces free of mortar daubs, dirt, stains and discoloration, including scum from cleaning operations. Do not use metal tools and metal brushes for cleaning. Before cleaning permanent construction, clean sample panel and examine for discoloration or stain. If the sample panel is discolored or stained, change method of cleaning to assure permanent masonry surfaces will not be adversely affected. Water, soak exposed surfaces and clean with "DEOX" or "SHUR-CLEAN," (proprietary masonry cleaning agents). Use cleaning agents in accord with manufacturer's instructions. Remove green in accord with brick manufacturer's instructions.

DIVISION 5 METALS

SECTION 05120 - STRUCTURAL STEEL

1. Code and Standards: AISC "Code of Standard Practice for Steel Buildings and Bridges"; AISC "Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings" including "Commentary"; AWS "Structural Welding Code", comply with applicable provisions except as otherwise indicated.

2. Shop Drawings: Show complete details and scheduled (if required) for fabrication, assembly and erection. Furnish anchor bolts required for installation in other work; furnish templates far bolt installation.

3. Steel Plates, Shapes, Bars: ASTM A36.

4. Cold-Formed Steel Tubing: ASTM A500, Grade B.

5. Steel Pipes: ASTM A53, Type E or S, Grade B, Schedule 40 unless otherwise noted.

6. Fasteners: High-strength bolts and nuts ASTM A325 or A490; unfinished bolts and nuts, ASTM A307, Grade A rivets, ASTM A502, Grade 1.

7. Shop Paint: FS TT-P-86, Type II, or SSPC-Paint 14.

8. Fabrication: Comply with AISC "Specifications" and final shop drawings. Mark and match-mark units for field assembly.

9. Connections: As shown on final shop drawings. Use high-strength bolts for field connections, except as otherwise indicated.

a. Comply with AWS Code for procedures, appearance and quality of welds.

10. Provisions for Other Work: Fabricate structural steel members to provide holes for securing other work and for passage of other work through steel framing as indicated.

11. Shop Painting: Paint structural steel work, except members or portions of members embedded in concrete or mortar, and contact at areas to be welded or riveted. Clean steel free of loose mill scale, rust, oil, and grease. Apply prime paint to provide a minimum dry film thickness of 2.0 mils.

12. Erection: Comply with AISC Code and Specification, and maintain work in safe and stable condition during erection. Provide temporary bracing and shoring as required; remove when final connections placed.

a. Set base plates on cleaned bearing surfaces; using wedges or other adjustments as required. Solidly pack open spaces with commercial non-shrink grout.

b. Splice members only where shown on final shop drawings.

c. Touch-up prime paint after erection. Clean field welded, bolted connections and abraded areas, and apply same type paint as used in shop.

SECTION 05210 - STEEL JOISTS

1. Work includes open web Steel joists, joist girders, joist bridging, bracing, and related work.

2. Industry standards governing this work are of the latest release at date of this specification as follows:

a. American Welding Society (AWS): AWS D.1 Structural Welding Code - Steel

b. Steel Joist Institute (SJI): Standard Specification, Load Tables and Weight Tables for Steel Joists and Girders.

3. Submit shop drawings to Owners representative for review. Review is for general conformance with design concept.

4. Erection:

a. Erect joists, girders, bridging and bracing in accordance with applicable portions of Sections 05120, 05210, and SJI industry standard.

b. Joist horizontal deviation from a straight-line shall not exceed 3/8" per 10' of member length.

c. Do not support any gravity load from bridging or bracing.

d. Weld in accordance with AWS D.1 using certified welders.

e. Provide anchorage to edge beams or masonry wall for ends of all bridging.

f. Immediately report to Owners representative all errors in fabrication or any deformation resulting from handling and shipping. Obtain approval from Owner for method of correction before proceeding with work.

SECTION 05311 - STEEL ROOF DECK

1. Section includes:

a. Steel roof deck and accessories.

b. Framing for openings up to and including 12 inches.

c. Bearing plates and angles.

2. References

a. ASTM A36/A36M, Structural Steel.

b. ASTM A446 Grades A, B, C, D, E, or F painted

c. ASTM A611, Steel, Cold-Rolled Sheet, Carbon, Structural.

d. AWS D1.1, Structural Welding Code.

e. SDI (Steel Deck Institute), Design Manual for Composite Decks, Form Decks, Roof Decks, Cellular Metal Floor Deck with Electrical Distribution.

f. SSPC (Steel Structures Painting Council), Painting Manual.

3. Performance Requirements

a. Design metal deck in accordance with SDI Design Manual.

CONTINUE

6. Interior Wood Trim:
- a. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.
- b. Interior Wood Trim:
1. General Use (Paint): Contractor's option: "C" Select Grade Southern Yellow Pine (Douglas Fir Alternate)
2. Natural Finish (Stain): Select Grade, quarter sliced Red Oak, AWI, Grade 1.
- c. Interior Finish Plywood: 3/4 inch paint grade, lumber core, oak plywood
- d. Frames: Same as for interior wood trim.
- e. Shelving: 3/4 inch AB Grade Oak plywood with exposed edges edgebanded.
- f. Nails: FS_FF_N_103c and FF_N_105a. Stainless steel for Redwood.
- g. Screws: FS_FF_S_11b.
- h. Lag Screws and Bolts: FS_FF_B_561, type and grade best suited for purpose used.
- i. Toggle Bolts: FS_FF_B_588b.
7. Exterior Wood Trim:
- a. Solid wood: For opaque or satin finish, "C" select grade yellow or white pine, location as indicated on plan.
- b. Plywood: Smooth finish cedar plywood.
- c. Exterior Wood Trim: Contractor's option: Redwood SAS #1, Cedar SAS #1, "C" Select Grade Yellow Pine or Fir.

8. Fabricate finish carpentry and cabinetwork items in accordance with AWI Quality Standards 'Custom Grade', and Section 400 of the AWI Guide. Shop fabricate items where possible.
9. Apply plastic laminate finish in full-uninterrupted sheets consistent with manufactured sizes. Corners and joints to be hairline.
10. Cap exposed plastic laminate edges with material of same finish and pattern.
11. Use exposed fastening devices or nails only when unavoidable.
12. Sand work smooth and set exposed nails and screws. Eliminate hammer marks and other defects. Apply wood filler in exposed nail and screw indentations and leave ready to receive site applied finishes.
13. Set and secure finish carpentry and cabinetwork items in place, rigid, plumb, and square.
14. Install and adjust cabinet hardware to correct operation.
15. Finish woodwork shall be set straight, plumb or level, closely fitted and rigidly fastened. Nail heads of exposed work shall be set for putty and other fasteners shall be concealed.

16. Joints shall be tight and formed to conceal shrinkage. All trim shall be mitered; no butt joints permitted interior corners shall be coped.
17. Install doors plumb, true and fitted properly. Leave in perfect working order. Warped doors will be rejected and shall be replaced. Neatly mortise, drill, and anchor all hardware.
18. Conceal fasteners wherever possible. Where not possible, locate them in an inconspicuous place. Where nails or screw attachment occurs in woodwork face, countersink, putty and sand smooth.

SECTION 06255 - FIBERGLASS REINFORCED PANELS

1. FRP panel: 48" wide, 3/32" thickness, white unless noted otherwise.
- Approved Manufacturers:
- a. Kemlite
- b. Marlite
2. FRP Accessories
- a. All moldings, trim, adhesive and other accessories shall be as manufactured and recommended by the same manufacturer as panels.
3. Sealant
- a. One part Silicone Rubber, ASTM C820 and FS TT-S-001543A, FDA approved, or as recommended by FRP manufacturer.
- b. Color: Clear to translucent
4. Install panels over water resistant drywall in strict accordance with manufacturers recommendations, using non-flammable adhesive (100% coverage).
- a. Drywall must be installed (and all joints taped) prior to ceiling to provide a good bondable surface to accept installation of FRP panels.
5. Discard units of material which are unsound, warped, bowed, twisted, improperly treated, or too small to fabricate, work with minimum of joints or optimum jointing arrangements, or which are of defective manufacture with respect to surfaces, sizes, or patterns.
6. Scribe and cut work to fit adjoining work.
- a. Caulk all joints and all moldings with silicone sealant.
- b. Panels to be applied to the wall with the 48" dimension horizontal, and in lengths to extend from base to ceiling with no intermediate horizontal joints.

- c. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level, and with 1/16" maximum offset in flush adjoining surfaces.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07210 - BUILDING INSULATION

1. Batt Insulation: Pre-formed glass fiber batt; blankets with foil face membrane covering; per ASTM C665, Type III; densities of not less than 0.5 lb. per cu. ft. for glass fiber units, K-value of 0.27; flame spread of 25 or less, ASTM E84 (Class A), 6" (R-19) unless otherwise noted.
- a. Certainteed Corp.
- b. Schuller International
- c. Owens-Corning Fiberglass Corp.
- d. United States Gypsum Co.
- e. Knauf Fiberglass
2. Perimeter Insulation: Rigid, cellular thermal insulation with closed-cells and integral high density skin, formed by the expansion of polystyrene base resin in an extrusion process to comply with ASTM C578 for type indicated, with 5-year aged R-values of 5.4 and 5 at 4 and 75 deg. F (4.4 and 23.9 deg. C.) respectively, 1" thickness unless otherwise noted.
- a. Dow Chemical Co., - Styrofoam SM
- b. Owens-Corning - Foamular 250
- c. DiversiFoam Products - Certifoam SE
- d. Amoco Foam Products - Amoflora CM
3. Sound attenuation insulation: USG "SAFB", 2.5 pound/cu. ft. density, no substitution.
4. Installation accessories and adhesives shall be as recommended by insulation manufacturer for type of application and condition of substrate.
5. Install batt insulation in accordance with manufacturer's instructions.
- a. Place batt insulation in partitions tight within spaces, around out openings, behind and around electrical and mechanical items within or behind partitions and light to items passing through partitions.
- b. Trim insulation neatly to fit spaces. Fill gaps or voids with insulation.
- c. Install insulation with factory applied membrane facing warm side of building spaces.
6. Secure rigid insulation to substrate surfaces. Stagger joints 6" where multi-layered. Cut and shape to sub state conditions.

SECTION 07240 - EXTERIOR INSULATION AND FINISH SYSTEMS

1. Section Includes Insulation and applied finish, reinforcing and coating Adhesives
2. References
- A. ASTM C578 preformed cellular polystyrene thermal insulation.
- B. UL723 - test for surface burning characteristics of building materials.
3. Conform to applicable code of system fire resistance and flame/smoke ratings for finish system.
4. Finish Materials
- A. Insulation: Extruded polystyrene insulation board shall meet ASTM C578, Type VI, and Federal Specifications #HH-1-524-B, Type 1, Class A, with a flame spread of less than 25 according to Underwriters Laboratory Test Method UL-723. Polystyrene board shall have a density of 1.0 lbs. Per cu. Ft. and a K value equal to 0.23 per inch. Thickness shall be as shown on drawings. In addition, all insulation board shall be aged (air dried) for a period of six weeks before use. Insulation board shall be square to within 1/32" per ft., with a thickness tolerance of +1/16"
- B. Mechanical Fasteners: As recommended by manufacturer, provide wind plates used in conjunction with corrosion resistant fasteners appropriate to bond EPS foam board to substrate system.
- C. Portland Cement: ASTM C-150, Type 1
- D. Reinforcing Fabric: Manufacturer's standard, balanced open weave glass fiber fabric made from twisted multi-end strands, specifically treated for compatibility with finish materials.
- E. High Impact Reinforcing: Manufacturer's standard, heavy duty glass fiber reinforcing mesh.
- F. Finish: 100 percent, acrylic based coating, integral color and texture as selected by Owner.

5. FINISH APPLICATION:

- A. Install all materials in complete accord with system manufacturer's printed specifications and/or recommendations.
- B. Insulation: Apply insulating board to backing surface with mechanical fasteners in a running bond pattern. Insulation shall be applied in largest pieces possible, run horizontally, with mechanical fasteners spaced per manufacturer's design standards.
- C. High Impact Reinforcing Fabric: Embossed high impact reinforcing fabric in a 1/8 inch bed coat of adhesive fully, so mesh pattern is concealed. Apply high impact fabric throughout work to all areas below 6'-0".
- D. Reinforcing Fabric: Wait a minimum of 24 hours after completing high impact fabric, then embed reinforcing fabric in a bedding coat of adhesive applied to all insulation board and over previously installed high impact reinforcing areas. Apply adhesive thick enough to ensure no fabric is exposed.
- E. Finish Coating: Apply the finish coating over reinforcing fabric. Finish shall be troweled tight and floated to approved.

SECTION 07552 - MODIFIED BITUMINOUS MEMBRANE ROOFING

1. Submittals:
- a. Shop drawings of tapered insulation.
- b. NRCA/ARMA's "Quality Control Recommendations for Polymer Modified Bitumen Roofing."
2. System: U. S. Intec specification "GBFR-2B-R1" two-ply roofing system, insulation and base sheet mechanically attached, with heat welded atactic polypropylene (APP) modified Bitumen Cap Sheet, UL Class A rating and Factory Mutual I-90 wind classification.
- a. Cap Sheet: APP Modified Bitumen Cap Sheet: Intec GBSP-4FR, white granular surface, heat weld applied.
1. Compound: Atactic Polypropylene (APP) Modified Asphalt.
2. Reinforcement: Non-woven polyester; one hundred seventy (170) grams per square meter.
3. Weight: One hundred five (105) pounds per one hundred (100) square feet.
4. Thickness: One hundred seventy-seven (177) mils.
5. Application: Torch.
6. Surfacing: Mineral.
- b. Glass Fiber Base Sheet: Intec/Pernaglas Ultra Base:
1. Asphalt saturated glass mat conforming to ASTM D 4601 Type II.
2. Weight: Eight (8) pounds per one hundred (100) square feet. (Approximately).
- Application: Mechanically fastened.
- c. Interply: Intec Irea Supreme Ply 4:
1. Glass fiber reinforced ply sheet.
2. Underlayment Laboratories Type G-2.
3. Weight: Twenty-three (23) pounds per one hundred (100) square feet. (Approximately).
4. Application: Mechanically fastened.
- d. Flexible Flashing: Intec SP-4:
1. Modified Bitumen Flashing membrane.
2. Compound: Atactic Polypropylene (APP) Modified Asphalt.
3. Reinforcement: Non-woven polyester; one hundred (170) grams per square meter.
4. Weight: Eighty-eight (88) pounds per one hundred (100) square feet.
5. Thickness: One hundred fifty-seven (157) mils.
6. Application: Torch.
7. Surfacing: Smooth.
- e. Asphalt Primer: ASTM D41.
- f. Flashing Membrane: Intec GBSP-4FR.
- g. Flashing Strip In: Intec SP-4.
- h. Cant Strips: ASTM D417 Permalite rigid insulation board, cut into 4 inch cross section as detailed.

3. Roofing Insulation

- a. Two layers of 1 1/2 inch thick "Uisofo" roof insulation, glass fiber reinforced polyisocyanurate foam roof insulation (R-20), by U. S. Intec, Inc., Port Arthur, Texas. Run second layer perpendicular to first. Provide tapered insulation to form counter slopes to drains.
- b. Fabricate tapered insulation with slope of 1/4 inch per 12 inches (1:48), unless otherwise indicated.
4. Accessories
- a. Mechanical Fasteners:
- U. S. Intec #12 coated drill point (CDP), alloy steel fasteners.
- U. S. Intec, 3-inch metal stress plates, 26 gauge, galvalume.
- b. Vents: Adjustable Mvent. Paint zero six four (064) spun aluminum vent with santoprene boot, primed and pre-flashed with APP modified bitumen membrane, manufactured by MWeld, Inc.
- c. Pitch Pans: M-curb System, structural urethane outer shell, bonded to roof surface, filled with 2-inch thick urethane rubber sealant, as manufactured by MWeld, Inc.

5. Installation

- a. U. S. Intec, Inc., "Modified Bitumen Roofing Systems Specification Manual", latest edition governs the work of this section.
- b. Secure thermal barrier with at least 1 fastener for each 4 sq. ft. (0.38 sq. m) and at least 2 fasteners per board.
- c. Mechanically fasten each layer of insulation to deck with at least 1 fastener for each 4 sq. ft. (0.38 sq. m) and at least 2 fasteners per board.
- d. Install and secure cant strips and nailer strips.

- e. Install one lapped base-sheet coarse, using manufacturer's disc plates and fasteners per manufacturer's standards.
- f. Install one lapped interlay layer, using manufacturer's disc plates and fasteners per manufacturer's standards
- g. Cap sheet : install modified bituminous roofing membrane over interply sheet.
- h. Maintain uniform side and staggered end laps. Bond and seal laps, leaving no voids.
- i. Base Flashing: Install base-sheet backer and modified bituminous membrane base flashing and secure to substrate.
- j. Flashings: Install flashings in accordance with U. S. Intec specifications and instruction, and regulatory requirements.
- k. Accessories: Install MWeld accessories in accordance with manufacturer's instructions.
- l. Protected roofing and base flashings from damage and wear during remainder of construction period.
- m. Correct deficiencies in or remove and reinstall roofing and base flashing that does not comply with requirements.

SECTION 07620 - SHEET METAL FLASHING AND TRIM

1. Zinc-Coated Steel: Commercial quality with 0.20 percent copper, ASTM A526, except: ASTM A527 for lock-forming, G90 hot-dip galvanized, mill phosphatized for painting; 24 gauge, except as otherwise indicated.
2. Solder: For use with steel, provide 50-50 tin/lead solder, ASTM B52 with rosin flux.
3. Fasteners: Same metal as flashing/sheet metal or other noncorrosive metal as recommended by sheet manufacturer. Match finish of exposed heads with material being fastened.
4. Bituminous Coating: SSPC-Paint 12, solvent type bituminous mastic, nominally free of sulfur, composed for 15-mil. dry film thickness per coat.
5. Roofing Cement: ASTM D4586, asphaltic.
6. General Metal Fabrication: Shop-fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA "Architectural Sheet Metal Manual" and other referenced industry practices. Fabricate for waterproof and weather resistant performance, with expansion provisions for running work, sufficient to permanently prevent leakage, damage, or deterioration of the work. Form work to fit substrates. Comply with material manufacturer instructions and recommendations for forming material. Form exposed sheet metal work without excessive oil-canning, bucking, and tool marks, true to line and levels indicated, with exposed edges folded back to form hems.
- a. Fabricate non-moving seams in sheet metal with flat-lock seams. For metal other than aluminum, form sides to be seamed, form seams and solder. Form aluminum seams with epoxy seam sealer; rivet joints for additional strength where required.
- b. Where tapped or bayonet-type expansion provisions in work cannot be used, or would not be sufficiently water-weatherproof, form expansion joints of inter-meshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).
- c. Where movable, non-expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elastomeric sealant, in compliance with SMACNA standards.
7. Comply with installation instructions and recommendations of SMACNA "Architectural Sheet Metal Manual". Anchor units of work securely in place, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams which will be permanently watertight and weatherproof.
8. Clean exposed metal surface, removing substances which might cause corrosion of metal or deterioration of finishes.

SECTION 07631 - GUTTERS AND DOWNSPOUTS

1. References
- a. SMACNA - Architectural Sheet Metal Manual
2. Conform to SMACNA Manual for sizing components for rainfall intensity determined by a storm occurrence of 1 in 5 years.
3. Conform to applicable code for size and method of rain water discharge.
4. Deliver, store, and protect products on site.
5. Stack preformed material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain.
6. Prevent contact with materials during storage which may cause discoloration, staining, or damage.
7. Galvanized Steel: ASTM A361, G90 zinc coating; 24 gauge core steel.
8. Components
- a. Gutters: SMACNA Half round
- b. Downspouts: SMACNA Round profile
- c. Accessories: Profiled to suit gutters and downspouts.
9. Accessories
- a. Anchorage devices: SMACNA requirements or type recommended by fabricator.
- b. Gutter and Downspout Supports: Brackets
- c. Fasteners: Galvanized steel with soft neoprene washers. Finish exposed fasteners same as flashing metal.
- d. Protective Back Coating: FS TT-C-494, bituminous.
- e. Solder: ASTM B32, 50/50 type.
- f. Flux: FS O-F-506.

10. Form gutters and downspouts of profiles and sizes indicated, to SMACNA requirements.

11. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defect detrimental to appearance or performance. Allow for expansion at joints.
12. Hem exposed edges of metal.
13. Solder shop formed metal joints. After soldering, remove flux. Wipe and wash solder joints clean. Weather seal joints.
14. Fabricate gutter and downspout accessories; seal watertight.
15. Apply bituminous protective backing on surfaces in contact with dissimilar materials.
16. Installation

- a. Install gutters, downspouts, and accessories in accordance with manufacturer's instructions.
- b. Join lengths with formed seams sealed or soldered watertight. Flash and seal gutters to downspouts and accessories.
- c. Connect downspouts to downspout boots. Grout connection watertight.

SECTION 07722 - ROOF HATCHES

1. SECTION INCLUDES

- a. Furnish labor, materials, services, equipment and appliances required for roof hatch work indicated on the Drawings and specified herein.

2. SUBMITTALS

- a. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Show details, hardware, locking devices, flashing, insulation and anchors. Include manufacturer's installation instructions. Detail to serve as installation drawings. Owner's acceptance is required prior to start of fabrication and/or shipment.

3. MANUFACTURER

- a. The Drawings were prepared and this Specification written on the basis of using the products of the Bilco Company, New Haven, Connecticut. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

4. ROOF HATCHES

- a. Type "S, 20", completely assembled:
1. Curb: 14 gauge prime painted steel with 22 gauge steel liner; 12 inches high; extended flanges for mounting with screws; integral cap flashing of same gauge of material as curb.
2. Covers: Same materials and gages as curb; continuous Neoprene gasket weatherproof seal.
3. Curb and Cover Insulation: One inch thick rigid.
4. Hardware: Heavy duty pitmle hinges, manually operated compression spring operators enclosed in telescopic tubes, positive snap latches with plated turn handles inside and out, automatic hold, open arm with vinyl grip handle; cadmium plated finish.

5. FABRICATION

- a. Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.

6. PROTECTION

- a. Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.

7. INSTALLATION

- a. Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.

SECTION 07820 - SEALANTS AND CAULKING

1. Sealant Type 1: One component, acrylic latex, for interior non-moving joints.
- a. Sonneborn: "Sonotac" or equal.
2. Sealant Type 2: One component urethane, gun-grade, non-sag, for interior or exterior concealed moving joints, thresholds end architectural sheet metal.
- a. Sonneborn "NP1" or equal.
3. Sealant Type 3: Multi-component urethane, gun-grads non-sag, for interior or exterior exposed moving joints (other than pavements), door and window frames, and other weathertight locations.
- a. Sonneborn "NP2" or equal.
4. Sealant Type 4: One component, urethane, gun-grades or pourable, self-leveling for interior or exterior horizontal joints.
- a. Sonneborn "Sonastick SL1" or equal.
5. Primer: Non-staining type, recommended by sealant manufacturer to suit application. Unpainted, porous surfaces shall be primed.
6. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint filling materials.
7. Joint Filler: ASTM D1056, round, closed cell polyethylene foam rod, oversized 30 to 50 percent. Polystyrene is unacceptable.
8. Bond Breaker Tape: Pressure sensitive polyethylene tape recommended by sealant manufacturer to suit application.
9. Clean, prepare and size joints in accordance with manufacturer's instructions. Remove any loose materials and other foreign matter which might impair adhesion of sealant. Metal surfaces shall be free of corrosion.
10. Install joint filler rod to proper depth by rolling material into joint without lengthwise stretching or twisting. Do not puncture or prime filler rod.
11. Sealant applications shall be performed in strict accordance with manufacturer's written specifications by tradesmen skilled in the work. Use masking tape to protect adjacent surfaces as necessary.
12. All sealing shall be done with neat, smooth toolled beads, free of air pockets, foreign embedded matter, ridges and sags, in firm full contact with interfaces.
13. Work adjacent to joints shall be cleaned free of smears of sealant compound as work progresses.

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1. All hollow metal doors and frames shall be furnished by the Contractor. Refer to Door Schedule on drawings.
2. Install doors and frames in accordance with SDI-100 and SDI-105 except as amended in this section. Comply with NFPA-80 for fire rated assemblies.
3. Install steel doors and frames plumb and square in correct locations indicated on drawings and with a maximum diagonal distortion of 1/16" inch. Ensure that frames are securely and rigidly anchored to adjacent construction.
4. Hang door to fit frames closely without binding. Door to come in full contact with stops when closed. Doors shall swing quietly and easily and not strike floors at any point of swing. Doors not equipped with closers shall remain stationary in any intermediate position in which they are left.
5. Immediately after installation, touch up surface coating damage with primer paint identical to that used for shop coat. Ready in clean condition, ready for finish paint specified in Section 09900. Install rubber door silencers after frames are given finish coats of paints.

SECTION 08212 - PLASTIC FACED FLUSH WOOD DOORS

1. The Drawings were prepared and this Specification written on the basis of using the products of Elason Corporation, Easy Swing Door Division, Kalamazoo, Michigan. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.
2. Door Type
- a. Easy Swing, Model SCP4W, decorative doors.
- b. Easy Finish: Decorative high impact plastic laminate; color as indicated on the drawings.
- c. Edge Caps and Base Plates: 18 gauge, 304 #4 stainless steel
- d. Hardware: Manufacturer's standard
- e. Windows: 3/16 inch thick clear acrylic plastic in black rubber molding; 200 square inches inches area mounted a minimum of 48 inches from door to bottom of panel.
3. Delivery, Storage and Handling
- a. Scheduling: Deliver to job site at least two weeks prior to date scheduled for installation, but not before building is enclosed and proper conditions of temperature and humidity are being maintained.
- b. Packaging: Crate or package doors and hardware to protect them during transit, delivery and storage, each package marked or tagged with corresponding door number as it appears on Door Schedule.
- c. Storage: Store doors and hardware at building site under cover. Place doors on at least 4 inch wood skids or on floors in manner that will prevent damage. Do not use non-vented plastic or canvas shelters. Remove wet cartons immediately. Provide 1/4 inch space between doors to promote air circulation.
4. Installation
- a. Install in accord with manufacturer's instructions. Conform to AWI requirements for fit tolerances.
5. Adjusting
- a. Adjust for smooth and balanced door movement.

SECTION 08306 - ACCESS PANELS

1. Manufacturer
- a. The Drawings were prepared and this Specification written on the basis of using the products of J. L. Industries, Bloomington, Minnesota. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
2. Access Panels
- a. Model "FD", flush mounted access panel, 24 x 24, UL 1-1/2 hour "B" label, completely assembled as follows:
1. Material:
- a. Door: 20 gauge steel
- b. Frame: 16 gauge steel
2. Hardware:
- a. Hinges: Continuous hinges open to 175 with spring closure.
- b. Locks: Recessed turn ring with interior latch release device.
3. Anchors: Manufacturer's standard for use intended.
4. Finish: Phosphate dipped steel with factory prime coat.
3. Installation
- a. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

SECTION 08410 - ALUMINUM ENTRANCES AND STOREFRONTS

1. Engineering Design:
- a. Structural Properties: Fabricate and install work of this Section to withstand wind loads required by governing laws, ordinances, regulations and codes and with a maximum deflection of L/175.
- b. Thermal Movement: Fabricate and install systems to provide for expansion and/or contraction of component materials as will be caused by temperature range of 150 degrees F without causing harmful buckling, opening of joints, undue stresses on fasteners, or other detrimental effects.
- c. Water Leakage: Fabricate and install systems to deny water leakage; defined as appearance of water, other than condensation, on room side face of any part of systems.
2. Submit shop drawings of system proposed. Base on details shown on Drawings, and develop to serve as installation Drawings. Architect's acceptance is required prior to start of fabrication.
3. The Drawings were prepared and this Specification written on the basis of using the products of Vistawall, Terrell, TX, (972) 551-6103.
4. Storefront Framing:
- a. "FG3800 Series Storefront System" for 1" glaze system, size 2" x 4-1/2", reinforced if required by Engineering design.
- b. "FG2000 Series Storefront System" for 1/4" glaze system, size 2" x 4-1/2", at interior locations.
- c. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
- d. Finish: Dark Bronze Anodized Aluminum conforming to AA-M1C22A31 and AAMA 607.1.
5. Doors and Hardware:
- a. Vistawall - Wide-stile entrance door, to match drawings, 1/2 inch thick tempered glass. Color to be Valspar # 384A229 Fluropon primer w/ Holietyre Surface Coat.
- b. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
- c. Hardware:
1. Pivots: Manufacturer's standard
2. Closers: Manufacturer's standard concealed door type, one each leaf.
3. Panic Devices: Manufacturer's standard "paddle handle", one each leaf.
4. Push-Pulls: Manufacturer's standard, one each leaf.
5. Dead Locks: Manufacturer's standard, one each single or pair.
6. Lock Cylinders: Furnished as part of builders hardware.
7. Thresholds: 4-inch wide aluminum, handicapped accessible (exterior only).
6. Fabrication:
- a. Storefront Framing: Fabricate and assemble in shop to greatest extent possible. Cut carefully and accurately. Use compression joints between vertical and horizontal mullions, with gasket of non-hardening butyl compound. Place standard water dam, in accord with manufacturer's recommendation, between vertical and horizontal members and seal with liquid butyl compound. Provide vision and spandrel areas with drainage to outdoors in horizontal member. Sizes of components and necessary field connections and fastenings required for installation; permit easy assembly by means of standard construction equipment and tools without use of special apparatus or appliances.
- b. Doors: Fabricate doors with light, hairline joints where rails are fitted against stiles, and fasten by means of tensioned steel tie-riods in top and bottom rails. Provide adjusting mechanism in top rail to provide for minor clearance adjustments. Glass stops; snap-in type with bulb type glazing strips. Weatherstripping: pile. Provide adjustable pile weatherstrip on one stile at meeting stiles of pairs of doors.

7. Preparation:
- a. Where aluminum surfaces contact steel, other incompatible metals or concrete, protect aluminum by one of the following:
1. Paint incompatible metal or concrete with coating of heavy-bodied bituminous paint.
2. Paint incompatible metal with prime coat of zinc chromate primer followed by two coats of aluminum metal paint or other suitable protective coating; exclude those containing lead pigmentation.
3. Non-absorbent gaskets.
4. Caulking between aluminum and incompatible metals.
5. If drainage from incompatible metal passes over aluminum, paint incompatible metal by method No. 2 above.
8. Installation:
- a. General: Install true to line, plumb, level, square, and in proper planes with other work. Install free from sags, waves, buckles, or other objectionable defects. Anchor to resist stresses to which the work shall normally be subjected.
- b. Hardware: Fit in accord with manufacturer's instructions. Install doors to operate smoothly and quietly after adjustment. Install door-closing devices immediately prior to final inspection. Install thresholds in two full beads of sealant compound (one along each edge) and fasten with color matching machine screws and expansion shields. One anchor will be required for each 24 inches of threshold length.
- c. Glass and Glazing: Specified in other Sections.

- a. Where aluminum surfaces contact steel, other incompatible metals or concrete, protect aluminum by one of the following:
1. Paint incompatible metal or concrete with coating of heavy-bodied bituminous paint.
2. Paint incompatible metal with prime coat of zinc chromate primer followed by two coats of aluminum metal paint or other suitable protective coating; exclude those containing lead pigmentation.
3. Non-absorbent gaskets.
4. Caulking between aluminum and incompatible metals.
5. If drainage from incompatible metal passes over aluminum, paint incompatible metal by method No. 2 above.

SECTION 08710 - FINISH HARDWARE

1. All door hardware shall be furnished by the Contractor. A schedule of hardware is shown on drawings.
2. Install hardware in accordance with manufacturer's recommendations, using proper templates.
3. Do not install surface-mounted items until finishes have been completed on the substrate.
4. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
5. Drill and countersink units, which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
6. Mount hardware units as indicated in DHI "Recommended Locations for Builders' Hardware for Standard Steel Doors and Frames."
7. Through-bolt all door closers.

8. Screw thresholds to substrate with No. 10 or larger stainless steel screws of the proper type for permanent anchorage of threshold.
- a. Set thresholds at exterior doors in a bed of mastic sealant to completely fill concealed voids and exclude moisture from every source. Do not plug drainage holes or block weeps. Remove excess sealant.
9. Surface mounted weather-stripping shall be installed prior to other surface mounted hardware, without breaks. Coordinate hardware accessories to suit continuous weatherstrip.
10. Clean operating items as necessary to restore proper function and finish of hardware.
11. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

SECTION 08810 - GLASS AND GLAZING

1. Float Glass: 1/4-inch thick, clear float (plate) glass
2. Tempered Glass: 1/4-inch thick, clear "Herculite" tempered safety glass
3. Insulating Glass: "Solarban 60 (2)", 1 (one) inch thick, clear, double glazed (tempered where noted on drawings). Insulating glass units shall comply with ASTM E774.
4. Mirror Glass: 1/4-inch thick quality polished plate glass, hermetically sealed with a uniform coating of electrolytic copper plating; FS #DDM-411.
5. Mastic: As recommended by manufacturer.
6. Hardware: K & V standards and brackets, satin brass finish.
7. Replace broken glass and clean all glass prior to final inspection.

DIVISION 9 - FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1. Gypsum Panels - Types Required
- a. Regular board: ASTM C36, tapered edges, thickness 5/8".
- b. Fire rated board: ASTM C36, Type X, tapered edges, thickness 5/8".
- c. Water resistant board: ASTM C630, tapered edges, thickness 5/8".
2. Submit shop drawings of system proposed. Base on details shown on Drawings, and develop to serve as installation Drawings. Architect's acceptance is required prior to start of fabrication.
3. The Drawings were prepared and this Specification written on the basis of using the products of Vistawall, Terrell, TX, (972) 551-6103.
4. Storefront Framing:
- a. "FG3800 Series Storefront System" for 1" glaze system, size 2" x 4-1/2", reinforced if required by Engineering design.
- b. "FG2000 Series Storefront System" for 1/4" glaze system, size 2" x 4-1/2", at interior locations.
- c. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
- d. Finish: Dark Bronze Anodized Aluminum conforming to AA-M1C22A31 and AAMA 607.1.
5. Doors and Hardware:
- a. Vistawall - Wide-stile entrance door, to match drawings, 1/2 inch thick tempered glass. Color to be Valspar # 384A229 Fluropon primer w/ Holietyre Surface Coat.
- b. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
- c. Hardware:
1. Pivots: Manufacturer's standard
2. Closers: Manufacturer's standard concealed door type, one each leaf.
3. Panic Devices: Manufacturer's standard "paddle handle", one each leaf.
4. Push-Pulls: Manufacturer's standard, one each leaf.
5. Dead Locks: Manufacturer's standard, one each single or pair.
6. Lock Cylinders: Furnished as part of builders hardware.
7. Thresholds: 4-inch wide aluminum, handicapped accessible (exterior only).
6. Fabrication:
- a. Storefront Framing: Fabricate and assemble in shop to greatest extent possible. Cut carefully and accurately. Use compression joints between vertical and horizontal mullions, with gasket of non-hardening butyl compound. Place standard water dam, in accord with manufacturer's recommendation, between vertical and horizontal members and seal with liquid butyl compound. Provide vision and spandrel areas with drainage to outdoors in horizontal member. Sizes of components and necessary field connections and fastenings required for installation; permit easy assembly by means of standard construction equipment and tools without use of special apparatus or appliances.
- b. Doors: Fabricate doors with light, hairline joints where rails are fitted against stiles, and fasten by means of tensioned steel tie-riods in top and bottom rails. Provide adjusting mechanism in top rail to provide for minor clearance adjustments. Glass stops; snap-in type with bulb type glazing strips. Weatherstripping: pile. Provide adjustable pile weatherstrip on one stile at meeting stiles of pairs of doors.

7. Preparation:
- a. Where aluminum surfaces contact steel, other incompatible metals or concrete, protect aluminum by one of the following:
1. Paint incompatible metal or concrete with coating of heavy-bodied bituminous paint.
2. Paint incompatible metal with prime coat of zinc chromate primer followed by two coats of aluminum metal paint or other suitable protective coating; exclude those containing lead pigmentation.
3. Non-absorbent gaskets.
4. Caulking between aluminum and incompatible metals.
5. If drainage from incompatible metal passes over aluminum, paint incompatible metal by method No. 2 above.
8. Installation:
- a. General: Install true to line, plumb, level, square, and in proper planes with other work. Install free from sags, waves, buckles, or other objectionable defects. Anchor to resist stresses to which the work shall normally be subjected.
- b. Hardware: Fit in accord with manufacturer's instructions. Install doors to operate smoothly and quietly after adjustment. Install door-closing devices immediately prior to final inspection. Install thresholds in two full beads of sealant compound (one along each edge) and fasten with color matching machine screws and expansion shields. One anchor will be required for each 24 inches of threshold length.
- c. Glass and Glazing: Specified in other Sections.

SECTION 09320 - CERAMIC AND QUARRY TILE

1. Quality Assurance: Perform tile work in accordance with the requirements of ANSI-TCI 137.1, "Recommended Standard Specification for Ceramic Tile".
2. Ceramic and Quarry Tile:
- a. Ceramic Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.
- b. Quarry Tile: Quarry tile to be Summerville Tile 6" x 6" tile double abrasive (in aisle); smooth (under equipment) with 6" core base. All quarry base throughout store to be installed over tile backer board. Color: As noted on Finish Schedule on Drawings.
- c. Waterproof membrane: Two-component liquid rubber latex with continuous fiberglass reinforcement equal to Latitrete 30/335.
3. Comply with applicable TCA installation methods for substrates indicated. Provide tile expansion joints at all construction and/or joints in the slab.
4. Mix and proportion pre-mix setting bed and grout materials in accordance with manufacturer's instructions.

Carter-Burgess

CARTER & BURGESS, INC.
1420 WEST MOCKINGBIRD LANE
DALLAS, TEXAS 75247
PHONE: 214-920-81

CONTINUE

5. Lay tile in grid pattern, parallel to walls. Lay out tile work and center tile fields in both directions in each space at an each wall area so that no tiles less than 1/2 tile will occur. Provide uniform joint widths.
6. All tile shall be brought to true and level planes with joints well filled and shall be secured firmly in place.
7. Cut and fit tile right to protrusions and/or perpendicular interruptions.
8. Sound tile after setting. Replace hollow sounding units.
9. Allow tile to set for a minimum of 48 hours prior to grouting.
10. Prohibit traffic from floor finish or activities near wall finish for 72 hours after installation. Protect the tile work from damage with Kraft paper or other heavy non-staining covering during the construction period.
11. Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Acid solutions may be used when permitted by tile and grout manufacturer's printed instructions.

SECTION 09510 - ACUSTICAL CEILINGS

1. Acoustical Panels:
- a. Dining Areas (LT-1)
1. Manufacturer: Armstrong (National Account Pricing Available)
2. Panels: #1761 HA, Fine Fissured Second Look II, Medium texture - (Class A fire rated where required by code)
3. Size: 24"x 48" x 3/4" (Scored)
4. Edges: Angled Tegalur
5. Suspension System: Prelude XL, 15/16" Exposed Tee grid
- a. Exposed, direct hung, per ASTM C635.
- b. Concealed grid member shall be electro-galvanized.
- c. Structural Classification: Intermediate duty.
- d. Provide fire rated grid where indicated or scheduled, or required by local codes.
6. Finish: White
- b. Kitchen (LT-2)
1. Manufacturer: Armstrong (National Account Pricing Available)
2. Panels: #670 Vinyl Faced Gypsum Panels (Class A fire rated where required by code)
3. Size: 24"x 48" x 1/2"
4. Edges: Square
5. Suspension System: Prelude XL, 15/16" Exposed Tee grid
- a. Exposed, direct hung, per ASTM C635.
- b. Concealed grid member shall be electro-galvanized.
- c. Structural Classification: Intermediate duty.
- d. Provide fire rated grid where indicated or scheduled, or required by local codes.
6. Finish: White
- c. Order / Pick-up (LT-3)
1. Manufacturer: Armstrong (National Account Pricing Available)
2. Panels: #670 Vinyl Faced Gypsum Panels (Class A fire rated where required by code)
3. Size: 24"x 48" x 1/2"
4. Edges: Square
5. Suspension System: Prelude XL, 15/16" Exposed Tee grid
- a. Exposed, direct hung, per ASTM C635.
- b. Concealed grid member shall be electro-galvanized.
- c. Structural Classification: Intermediate duty.
- d. Provide fire rated grid where indicated or scheduled, or required by local codes.
6. Finish: Paint to match LT-1 above
2. Miscellaneous Materials:
- a. Hanger Wire: Galvanized carbon steel wire, ASTM A641, soft temper, prestretched Class 1 coating, sized so that stress at 3-times hanger design load (ASTM C635, Table 1, Direct Hang), will be less than yield stress of wire, but provide not less than 12 gauge.
- b. Edge Moldings and Trim: Metal of types and profile indicated or, if not indicated, provide manufacturer's standard molding for edges and penetrations on ceiling which fits with type of edge detail and suspension system specified.
3. Installation:
- a. Install suspension systems to comply with ASTM C636. Locate hangers not less than 6" from other ends and spaced 4'-0" along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8" in 12'-0". In kitchen areas, hangers shall be spaced 3'-0" along each carrying channel or direct-hung runner to obtain load capacity of 16 lbs./F. Provide hanger wire at each corner of each recessed fluorescent fixture.
- b. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.
- c. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum, which are not part of supporting structural or ceiling suspension system. Splice hangers only where required to miss obstructions and only recutting horizontal force by bracing, counter-splinting or other equally effective means.
- d. Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.
- e. Clean exposed surface of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

SECTION 09670 - RESILIENT BASE (VINYL)

1. Furnish labor, materials, services, equipment and appliances required for resilient base work indicated on the Drawings and specified herein.
2. The Drawings were prepared and this Specification written on the basis of using the products of Burke, Inc., San Jose, CA. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
3. Base:
- a. Type: "Cove" Base: use all hard surface and/or resilient flooring floor installations scheduled "vinyl base" on the Drawings.
- b. Trim Pieces: Match base type.
- c. Color: #217 Charcoal
4. Adhesive as recommended by base manufacturer.
5. Conditions:
- a. Temperature: Maintain minimum temperature of 70 degrees F for 48 hours before, during and for 48 hours after. Do not install base when temperature is below 70 degrees.
- b. Surface of Wall: Clean surfaces to receive base free from moisture, paint, oil, wax, or other films which may affect adhesion. Fill cracks, rough areas, joints, and other surface defects.
6. Defers installation until work that might cause damage to base has been completed. Install "cove" base after installation of adjacent floor surface.
7. Application
- a. Adhesive: Apply in accord with base manufacturer's instructions; cover at least 75 percent of back of base.
- b. Base and Trim Pieces: Use molded inside and outside corners and stops where base terminates, as at doors. Install with tight joints with top and bottom edges in firm contact with walls and floors.
- c. Fitting: Tight-fit each joint, tops of adjacent pieces matched; each piece in contact with floor and adjacent piece or trim pieces.

SECTION 09680 - CARPET

1. Work of this Section consists of installing all materials furnished under this Section, including all equipment, labor, services, and incidental items required to complete Work as shown on Drawings and specified in this Section.
- a. Preparation of substrate to receive Carpet as required and specified in this Section.
- b. Glue-Down Carpet Installation, complete with Accessories.
2. Shop Drawings:
- a. Show layout and seaming diagrams.
- b. Indicate pile of pattern direction and locations and types of edge strips.
- c. Indicate columns, doorways, enclosing walls or partitions, built-in cabinets and locations where cutouts are required in carpet.
- d. Show installation details at special conditions.
3. Substrate Conditions - Direct Glue Down on New Concrete:
- a. No condensation within 48 hours on underside of 4 ft. x 4 ft. polyethylene sheet, fully taped at perimeter to substrate.
- b. Max. 9 pph when substrate wetted with potable water and pH/dm paper applied.
4. Materials:
- a. Carpet: Owner-furnished, Contractor installed.
- b. Accessories:
1. Carpet Edge Guard - Marble, as detailed in drawings. Color to be determined by Owner.
2. Seaming Cement: Hot-melt seaming adhesive or similar product recommended by carpet manufacturer, for taping seams and butturing out edges at backing to form secure seams and prevent pile loss at seams.
3. Carpet Adhesive: Water-resistant, nonstaining-type recommended by carpet manufacturer, and complying with flammability requirements for installed carpet.
4. Miscellaneous Materials: As recommended by manufacturers of carpet and other carpeting products; and selected by installer to meet Project circumstance and requirements.
5. Preparation: Clear away debris and scrape up cementitious deposits from surfaces to receive carpeting; apply sealer to prevent dusting.
6. Installation:
- a. Comply with manufacturer's recommendations for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile.
1. At doors, center seams under doors in closed position.
2. So not place seams perpendicular to doorframe, in traffic direction through doorways.
3. Extend carpet under removable flanges and furnishings, and into alcoves and closets of each space.
4. Provide cutouts where required, and bind out edge of carpet is exposed; anchor guards to substrate.
5. Install carpet edge guard where edge of carpet is exposed; anchor guards to substrate.
7. Glue-Down Installation:
- a. Fit sections of carpet into each space before application of adhesive.
- b. Trim edges and butt cuts with seaming cement.
- c. Apply adhesive uniformly to substrate in accordance with manufacturer's instructions.
- d. Butt carpet edges tightly together to form seams without gaps.
- e. Roll entire carpet area lightly to eliminate air pockets and ensure uniform bond.
- f. Remove adhesive promptly from face of carpet by method, which will not damage carpet face.
9. Woodwork Backpriming
- One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.
10. Gypsum Wallboard
- 1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
- 2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
11. Ferrous Metal and Gas Lines
- First: Remove all dirt, grease, oil, and scaly material.
- 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
- 2nd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series
- 3rd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series (4 mils wet, 1.5 mils dry per coat)
12. Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and quantities listed herein. Colors are indicated on drawings.
- Exterior Surfaces
1. Wood Trim (Paint)
- 1st coat: Sherwin Williams - A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
- 2nd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series
- 3rd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
2. Wood "Stained"
- 1st coat: Lauritzen & Makin, Inc. Wood stain.
- 2nd coat: Same as first coat.
3. Ferrous Metals and Exposed Gas Lines
- 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
- 2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
- 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
- Note: Omit first coat on materials already prime painted but touch up bare spots with Metal primer.
4. Stucco and EIFS:
- 1st coat: Sherwin Williams Luxon Conditioner (A24-100 Series)
- 2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
- 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
5. Preapainted Equipment (Rooftop Equipment, Transformers, Etc.)
- 1st coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
- 2nd coat: Same as first coat.
- Interior Surfaces
1. Wood Doors and Trim (Paint)
- 1st coat: Sherwin Williams ProRite Classic Primer, B28W101 (4 mils wet, 1.6 mils dry)
- 2nd coat: Sherwin Williams ProRite 200 Latex Semi-Gloss B31W200 Series
- 3rd coat: Sherwin Williams ProRite 200 Latex Semi-Gloss B31W200 Series (4 mils wet, 1.5 mils dry per coat)
2. Wood Trim "Stained"
- 1st coat: Lauritzen & Makin, Inc. (817/921-0218) wood stain.
- 2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
3. Wood Doors "Stained"
- Same as for Exterior Wood "Stained"
9. Woodwork Backpriming
- One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.
10. Gypsum Wallboard
- 1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
- 2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
11. Ferrous Metal and Gas Lines
- First: Remove all dirt, grease, oil, and scaly material.
- 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
- 2nd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series
- 3rd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series (4 mils wet, 1.5 mils dry per coat)
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- Note: Omit first coat on materials already prime painted but touch up bare spots with Metal primer.
4. Stucco and EIFS:
- 1st coat: Sherwin Williams Luxon Conditioner (A24-100 Series)
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- 2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
3. Wood Doors "Stained"
- Same as for Exterior Wood "Stained"
9. Woodwork Backpriming
- One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.
10. Gypsum Wallboard
- 1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
- 2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
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- 3rd coat: Sherwin Williams ProRite 200 Latex Semi-Gloss B31W200 Series (4 mils wet, 1.5 mils dry per coat)
2. Wood Trim "Stained"
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- 2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
3. Wood Doors "Stained"
- Same as for Exterior Wood "Stained"
9. Woodwork Backpriming
- One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.
10. Gypsum Wallboard
- 1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
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2. Wood "Stained"
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3. Ferrous Metals and Exposed Gas Lines
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4. Stucco and EIFS:
- 1st coat: Sherwin Williams Luxon Conditioner (A24-100 Series)
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- 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
5. Preapainted Equipment (Rooftop Equipment, Transformers, Etc.)
- 1st coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
- 2nd coat: Same as first coat.
- Interior Surfaces
1. Wood Doors and Trim (Paint)
- 1st coat: Sherwin Williams ProRite Classic Primer, B28W101 (4 mils wet, 1.6 mils dry)
- 2nd coat: Sherwin Williams ProRite 200 Latex Semi-Gloss B31W200 Series
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2. Wood Trim "Stained"
- 1st coat: Lauritzen & Makin, Inc. (817/921-0218) wood stain.
- 2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
3. Wood Doors "Stained"
- Same as for Exterior Wood "Stained"
9. Woodwork Backpriming
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4. Stucco and EIFS:
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- 3rd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
2. Wood "Stained"
- 1st coat: Lauritzen & Makin, Inc. Wood stain.
- 2nd coat: Same as first coat.
3. Ferrous Metals and Exposed Gas Lines
- 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
- 2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
- 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
- Note: Omit first coat on materials already prime painted but touch up bare spots with Metal primer.
4. Stucco and EIFS:
- 1st coat: Sherwin Williams Luxon Conditioner (A24-100 Series)
- 2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
- 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
5. Preapainted Equipment (Rooftop Equipment, Transformers, Etc.)
- 1st coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
- 2nd coat: Same as first coat.
- Interior Surfaces
1. Wood Doors and Trim (Paint)
- 1st coat: Sherwin Williams ProRite Classic Primer, B28W101 (4 mils wet, 1.6 mils dry)
- 2nd coat: Sherwin Williams ProRite 200 Latex Semi-Gloss B31W200 Series
- 3rd coat: Sherwin Williams ProRite 200 Latex Semi-Gloss B31W200 Series (4 mils wet, 1.5 mils dry per coat)
2. Wood Trim "Stained"
- 1st coat: Lauritzen & Makin, Inc. (817/921-0218) wood stain.
- 2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
3. Wood Doors "Stained"
- Same as for Exterior Wood "Stained"
9. Woodwork Backpriming
- One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.
10. Gypsum Wallboard
- 1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
- 2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
11. Ferrous Metal and Gas Lines
- First: Remove all dirt, grease, oil, and scaly material.
- 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
- 2nd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series
- 3rd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series (4 mils wet, 1.5 mils dry per coat)
12. Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and quantities listed herein. Colors are indicated on drawings.
- Exterior Surfaces
1. Wood Trim (Paint)
- 1st coat: Sherwin Williams - A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
- 2nd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series
- 3rd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
2. Wood "Stained"
- 1st coat: Lauritzen & Makin, Inc. Wood stain.
- 2nd coat: Same as first coat.
3. Ferrous Metals and Exposed Gas Lines
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- 2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
3. Wood Doors "Stained"
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10. Gypsum Wallboard
- 1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
- 2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
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- First: Remove all dirt, grease, oil, and scaly material.
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- Same as for Exterior Wood "Stained"
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- 2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
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12. Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and quantities listed herein. Colors are indicated on drawings.
- Exterior Surfaces
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- 1st coat: Sherwin Williams - A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
- 2nd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series
- 3rd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
2. Wood "Stained"
- 1st coat

CONTINUE

5. Indirect Waste Piping: Shall be Type "L" copper with 95/5 sweat solder and wrought copper fittings (see plumbing plan for requirements) unless otherwise indicated.
6. Gas Piping:
- a. Gas piping including tap and service shall be included. Coordinate meter location with local authority.
 - b. Underground gas piping shall be Schedule 40 black steel pipe with long radius steel welding fittings. Protect pipe and fittings with: Tranxex wrapping tape applied in accordance with the manufacturer's recommendation. Other type of pipe protection of equivalent quality will be optional with this Contractor. Installation of gas service piping and material shall meet with local gas company's approval.
 - c. Gas piping above ground shall be Schedule 40 black steel with 125 lb. black malleable iron screwed fittings and supported at intervals not to exceed 8'-0" and at each change in horizontal or vertical direction. Gas piping compound and joints shall be in compliance with NFPA Bulletin No. 54 and local applicable codes and suitable for natural gas service.
 - d. Gas piping shall supply HVAC units, water heater and kitchen equipment if indicated on drawings by this Contractor.
 - e. Moisture traps shall be installed on each piping drop for HVAC units, water heater and kitchen equipment.
7. Storm drain leader: Same as soil, waste & vent piping.
8. Insulation:
- a. All Water Pipes, Rain Leaders and etc. shall be insulated. Piping shall be insulated to prevent excessive heat loss and to prevent condensation and sweating. All piping shall be insulated with at least 1/2" thick foam insulation as manufactured by Armstrong Armflex or approved equal as indicated on plans and notes. As much of the insulation as possible shall be piped on to the piping as the piping is being connected in order to avoid cutting the insulation. All butt ends and any necessary longitudinal joints shall be sealed with rubber based adhesive.
7. Fixtures:
- a. See drawings for specifications.
8. Flushings:
- a. All piping and vents passing through roof shall be flushed watertight with six pound to the square foot lead using sleeve flashing with base extending at least 12 inches in each direction beyond the outside diaphragm of the pipe. Turn sleeve down a minimum of 1-1/2" into top of vent pipe with lead fitting snugly inside of pipe. All gas vent caps shall be fitted with lead fitting snugly inside of pipe. All vent caps shall be vandal proof. Verify approved flashing material and methods with roofing contractor to ensure a complete job. See details on arch. sheets.
9. Cleanouts:
- a. See drawings for specifications.
10. Equipment:
- a. Water Heater, Furnished and Installed by Plumbing Contractor:
 - 1. Size, capacity, type and manufacturer as indicated by drawings. Water heater shall be gas.
 - 2. Gas water heater shall be provided with Class "B" UL labeled five vent similar to Metalbestos Type RV complete with pipe fittings, ceiling collar, fire stop, roof flashing, weathertight storm collar and bird-proof vent cap, installed in strict accordance with manufacturer's recommendations.
 - 3. The water heater shall be provided with all temperature and safety controls including ASME and ANSI Z21.22 rated temperature and pressure relief valve, gas pressure regulator (if required), drain valve, expansion tank, etc.
 - 4. Plumber shall make water, gas and relief line connections with cutoff valves and dielectric unions in water and gas lines.
 - b. Valves, Cocks and Faucets:
 - 1. Unless specifically indicated otherwise, the valves shall be designed for not less than 125 lbs. working pressure. The valves shall have suitable valve body patterns for connection to the pipe for which they will operate. All valves with rising stems shall have back seats for packing under pressure. Approved equal gate valves and check valves as manufactured by Stockham, Walworth, Lunkenheimer, Scott, Hammond, Crane or Watts will be acceptable.
 - 2. Gate valves shall be Hammond 1863A split wedge or approved equal.
 - 3. Cutoff valves undermeath lavatories, tank type water closets, sanitary sinks and water coolers shall be chrome plated angle stop valves with soft annealed chrome plated copper connection pipes and chrome plated escutcheon plates.
 - 4. Gas Cocks for all Equipment: See drawings for requirements.
 - 5. Water cutoff valve shall be Nibco #S-112 or approved equal bronze solder joint, 125 lb. WOG with rising stems.
 - 6. Exterior hose cocks and valve fixtures to be non-freeze type, supply shut-off valves if indicated on plans.
11. Execution:
- a. Piping:
 - 1. All piping shall be run concealed except where shown otherwise on drawings.
 - 2. Valves, traps, cleanouts and other apparatus shall be installed in an inconspicuous location.
 - 3. Soil, waste and vent offsets and house drains shall be installed with a minimum, uniform grade of 1/8" to the foot, unless otherwise indicated or required by local codes.
 - 4. Hot and cold water lines shall be at least 6" apart where piping is parallel.
 - 5. All water lines shall be run overhead and down partition walls unless no wall is provided; then run lines under slab to point of termination. All lines shall be concealed unless noted otherwise on plans.
 - b. Hangers and Supports:
 - 1. Copper piping shall be supported at intervals not to exceed 7'-0" and at each change in horizontal or vertical direction. Hangers shall be Fee & Mason plastic coated hanger, Fig. 381 or approved equal by Grinnell. Hanger attachment to structure shall be as required.
 - 2. Gas piping shall be supported at intervals not to exceed 8'-0" and at each change in horizontal or vertical direction. Steel pipe hangers shall be Grinnell Fig. 104 or Fee & Mason Fig. 199. Attachment to structure to be as required.
 - 3. Hanger rods shall be standard bolt steel with machine screw threads, 3/8" diameter minimum.
 - 4. All piping underground shall be firmly bedded on the body of the pipe, and bell holes provided at each bell. All piping shall be installed in graded trench. Excavate, backfill and support pipin is herein before specified.
 - c. Plumbing Fixtures:
 - 1. Furnish and install all plumbing fixtures complete with all equipment fittings, trimmings and accessories, as specified. Open front seats with no covers as manufactured by Olsentle will be acceptable.
 - 2. All fixtures shall be Grade A. The name or trade mark of the manufacturer shall be printed or pressed on all closets and lavatories, and a label, which cannot be removed without destroying it, containing the manufacturer's name or trademark and the quality or class of the fixtures, shall be affixed to all fixtures and not removed until after the work has been accepted.
 - 3. Exposed piping to fixtures shall be a product of the future manufacturer or approved equal and shall be:
 - a. Water: Chromium plated iron pipe size red brass.
 - b. Waste: Chromium plated tubing, except waste connections to kitchen or scullery sinks.
 - 4. Stops as manufactured by the fixture manufacturer, with metal-to-metal seat, shall be provided for all fixtures and equipment. Refer to schedule on drawings for manufacturer's and model numbers used as guide specifications. Numbers list rated represent the complete workable outfit with all brass trim as necessary.
 - 5. Fixtures shall be white unless otherwise noted.
 - 6. Fixtures furnished by this Contractor or by the Owner shall be fitted with necessary water supplies, stops and traps with cleanout plugs under this section of the specifications.
- d. Tests:
- 1. The plumbing system and associated system shall be subject to constant inspection and final approval of the code authorities having jurisdiction. Tests, in addition to those included in this section, required to show code compliance, shall be performed as directed.
 - 2. The soil, waste and vent lines of the sanitary systems shall be subjected to a water pressure test of not less than 10 feet of water head pressure or 34 pounds of air pressure for a duratio of not less than 2 hours. During the pressure tests each joint shall be inspected for leaks. The lines shall be tested as an entire system; but all the underground and concealed lines shall be given the above test and approved before the lines are covered.
 - 3. The domestic water piping system shall be subjected to a water pressure test of not less than 150 PSI for duration of not less than 2 hours. The water piping shall be tested as an entire system; but all underground and concealed lines shall be given the above test and approved before the lines are covered.

SECTION 15550 - SPRINKLER SYSTEM

1. Scope of Work
- a. Work included under this Section consists of providing labor, materials, appliances, equipment, tools, transportation, superintendence and services required to construct and install a sprinkler system as specified, indicated and elsewhere required.
 - b. The sprinkler system specified herein is required to meet the Local Buiding Code.
 - c. Refer to Section 15400, PLUMBING, for piping and check valves.
2. Products
- a. Hangers
 - (1) Hangers must meet NFPA approved type for construction used.
 - b. Sprinklers
 - 1. Sprinklers shall be approved automatic spray sprinklers to comply with NFPA 13. Sprinklers shall be of operating temperature as required by NFPA and the Fire Marshal's Office. Provide approved metal cabinet with number of replacement heads of various types and quantities as required by Insuring Agency.
 - 2. Semi - recessed sprinklers with 1/2" discharge orifice in finished areas where sprinklers are exposed to the public.
 - 3. Standard chrome pendant sprinklers with short escutcheon (1/2") 1/2" discharge orifice in kitchen & service areas.
 - c. Water Flow Indicator
 - 1. Provide an electric water flow indicator where indicated and/or required by the authorities having jurisdiction. Water flow indicator shall be provided with time delay mechanism, which absorbs fluctuation caused by water surges. Switches shall be wired compatible with solenoid valve installed in domestic water line.
3. Execution
- a. Installation
 - 1. Drawings were prepared with intent that all lines clear obstructions as pipes, beams, lights, hangers and similar items. Examine building and plans confirming dimensions before pipe is cut, fabricated and/or installed, to determine if offsets are necessary. Where required, offsets shall be made without additional cost to Owner.
 - 2. Following general scheme shall be employed when locating sprinkler heads unless restricted by Rules and regulating bodies.
 - 3. Unless otherwise indicated, conceal piping in finished portions of building and expose elsewhere. Locate concealed piping in furring, pipe spaces, chases and above suspended ceilings. Install exposed piping parallel or perpendicular to walls.
 - 4. Lines at or above ceilings shall be held as high as possible and be run to avoid conflicts. Include fittings and material required to accomplish this result.
 - 5. Provide sleeves for piping passing through floors, ceilings and masonry of concrete walls. Locate, set and anchor sleeves.
 - 6. Provide lintels required to properly complete sprinkler installation.
 - 7. Provide plates on lines passing through floors, ceiling or walls.
 - 8. Hangers must be properly spaced and secured to building structure to adequately support lines. Support from suspended ceilings and/or similar construction will not be accepted.
 - 9. Devices shall be in accordance with Rules and Regulations of NFPA and Insuring Agency and shall bear their label of approval.
 - 10. Reducing bushings are not permitted in more than one outlet of any tee or any two outlets of any cross. Bushings are not permitted in any elbows or when the reduction in size of the outlet no less than 1/2".
 - 11. Install check valve where indicated on plans.
 - b. Testing
 - 1. Test systems under normal operating conditions and demonstrate that parts are functioning properly. Conduct tests and secure final certificates of approval. Deliver copies of Certificates to Architect/Engineer & Landlord.
 - 2. Test shall include but not be limited to the following:
 - a) Two hour, 200 pound hydrostatic test aboveground system.
 - b) Include cost and run such tests as may be necessary to demonstrate that equipment equals or exceeds capacities specified upon request.
 - c) Notify Architect/Engineer twenty-four hours before testing.

SECTION 15770 - HEATING, VENTILATING AND AIR CONDITIONING

4. Work Included:
- a. Heating, ventilating and air conditioning work required, including hoisting of equipment to the roof and setting it in place, includes, but not necessarily limited to:
 - 1) Package heating, ventilating and air conditioning units (if not existing noted to be reused)
 - 2) Installation of owner furnished exhaust hood, Exhaust Fans and Make-up Air Unit (Ductwork furnished & installed by Contractor).
 - 3) All HVAC & hood exhaust ducts, dampers, grills, registers and diffusers.
 - 4) Insulation of ducts and piping.
 - 5) HVAC controls, remote temperature sensors and Control wiring.
 - b. Gas Connections (if required see drawings): Furnishing Contractor will bring Gas to heating, ventilating and air conditioning and final tie-in to HVAC by Plumbing Contractor.
5. Intent of Drawings:
- a. The drawings are diagrammatic to the extent that they do not indicate offsets, bends, special fittings and exact locations.
 - b. Piping, ductwork, apparatus and equipment shall be installed to avoid obstructions, preserve headroom, keep openings and passageways clear, and make all operating equipment accessible for maintenance.
 - c. Governing Codes and Standards:
 - (1) Install all work in accordance with the rules and regulations of the Standards of Safety, adopted and approved by the Insurance Underwriters and the latest standards recognized by ASHRAE and SMACNA and in accordance with local code.
 - (1) In case of conflict between said codes and the drawings, the codes shall govern in all cases; however, notify Owner, before making such change.
6. Examinations of Drawings and Site:
- a. Before commencing the work, the Contractor shall carefully study the drawings, specifications and site. He shall definitely determine in advance the methods of installing and connecting the apparatus, the means for getting the equipment into place, and shall make himself familiar with all of the requirements of the Contract. Equipment shall physically fit the area allocated with ample access for service.
 - b. The Contractor shall refer any discrepancies to the Architect for decision before proceeding with the work

4. Submittals:

- a. Materials List: The Contractor shall submit, at his expense, three (3) copies of equipment brochures in index form within fifteen (15) days after contract is signed. All equipment and material submittals shall be submitted at one time. The drawings submitted shall bear the stamp of approval of the Contractor as evidence that the drawings have been checked by the Contractor and comply with the requirements of the Contract drawings and specifications.

5. Guarantee:

- a. Furnish written certified guarantee, in acceptable form, to the Owner, against defective workmanship, materials, and operating equipment; further, guarantee to rebalance and adjust entire system or any part thereof, as required for perfect operation for a period of at least one (1) year after acceptance, including cost of refrigerant charge. Repair, replace and make satisfactorily operative any and all defective items and work holding Owner free from any cost and liability in connection therewith for the term of guarantee. The manufacturer shall provide a warranty on his unit compressors for a period of five (5) years.

6. Coordination of Other Trades:

- a. The work under this section shall be coordinated with other trades to maintain a rapid and smooth construction progress with a minimum of interference.

7. Painting:

- a. Apply one (1) coat of Zinc Chromate, or Rustoleum to bare metal surfaces of supports, etc. color to match units color or as directed by Architect or Owner.

8. Clean-up:

- a. All equipment and exposed surfaces shall be left smooth and clean. All plate work shall be polished and the entire premises shall be cleaned of unused materials, rubbish, and debris and grease spots.

9. Products:

- a. General
 - (1) All Equipment shall be the capacity and type shown on the Equipment Schedule on the drawings and shall as equal approved in advance by the Architect.
- b. Sheetmetal Work
 - (1) Sheetmetal: Prime steel sheets, hot dipped galvanized of the following gauges:
 - (a) Up to 12" wide or diameter, #25
 - (b) 13" to 30" wide or diameter, #24
 - (c) 31" to 60" wide or diameter, #22
 - (2) Partitions forming plenum or suction chambers, #18 gauge with 1-1/2" x 1-1/2" x 3/16" galvanized iron angle and rivets for seam connection and stiffening.
 - (3) Exposed round duct shall be spiral type similar to Semco "SS" 75 Dual wall round pipe with 2" insulation, perforated liner with all required fittings. Pipe shall be 24-26 ga.
 - (2) Duct Construction:
 - (a) Longitudinal Joints: Pittsburgh corner seams or snap lock.
 - (b) Transverse Joints: Government locks riveted at corners, constructed of metal one gauge heavier than that joining duct sections. Ducts under 20" may be jointed with transverse captrips.
 - (c) Supports: Except as otherwise specified, all duct hangers shall be constructed of 3/4" No. 16 galvanized strap, spacing not to exceed eight foot intervals. Where duct hangers exceed six feet in length, provide adequate sway bracing. All vertical ducts shall be supported on angle iron brackets.
 - (d) Elbows: Made for an easy flow of air for minimum friction, inside radius equal to width of duct. Provide elbows with approved duct turns where indicated on plans or where space does not permit required radius.
 - (e) Flexible Connection: At all fans, connections shall be Neoprene coated glass fiber cloth ends which are to be turned into abutting ends of sheetmetal or angle iron frames so as to form a gasket to form an air tight joint.
 - (3) Workmanship and construction shall meet and exceed the standards as set forth by SMACNA

- c. Grilles, Registers and Diffusers:
 - (1) Sizes: As indicated on drawings.
 - (2) Supply diffusers: As indicated on drawings.
 - (1) Return Air Registers: As indicated on drawings.
- d. Duct Insulation:
 - (1) Insulate all supply, make-up air and return air ducts with foil-faced blanket, see plans for additional information. (Not required for Spiral, Round duct)
 - (2) Maximum 25 flame spread ISO smoke developed.

10. Execution:
- a. Installation of Equipment:
 - (1) General:
 - (a) Install all equipment where indicated on the approved Contract drawings.
 - (b) Avoid interference with structure and the work of other trades; do not cut into load carrying members without the specific approval of the Architect.
 - (c) Temperature control system shall be as shown on the drawings.
 - b. Acceptance:
 - (1) The system shall not be considered for acceptance until the Mechanical Subcontractor has completed work and demonstrated to the representative of the Owner, proper operation of the system and strict compliance with the specifications, particularly in reference to the following articles of these specifications.
 - (a) Testing
 - (b) Cleaning
 - (c) Instructions and Operating Manuals
 - (d) Training of Operating Personnel
 - (e) As-Built Drawings
 - (f) Guarantee Certificates
 - (g) Start up and Test Document
 - (i) Independent Air Balance Report
 - c. Air Conditioning Unit Start-up and Test:
 - (1) All air conditioning equipment shall be started and checked by the manufacturer's factory service personnel. The manufacturer shall correct any problems arising with the equipment. The manufacturer shall provide a checklist or report on the operation of the equipment, which shall be forwarded to the Architect.
 - d. Guarantee:
 - (1) The guarantee provision of this specification requires prompt replacement of all defective workmanship and materials occurring within one year of job acceptance. This includes all work required to remove and replace the defective item and to make all necessary adjustments to restore the entire installation to its original specified operating condition and finish at the time of acceptance.
11. Toilet exhaust Fans:
- a. Toilet Exhaust Fans: All complete with roof-mounted curb, collar and damper. The contractor shall set fan curb and the fan, and coordinate the electrical interlock with electrical contractor for simultaneous operation with Roof-top units.
12. Exhaust Hood and Fan System:
- a. Kitchen hoods, supply, exhaust and toilet exhaust fans; all complete with roof mounting curbs, collars and dampers will be furnished to the job site by Owner under separate contract. The Contractor will hang the hoods, set fan curbs and fans, and furnish and install all interconnecting ductwork as, required by code and per hood manufacturer's cut sheets. Type II Hoods shall have galvanized sheet metal exhaust ductwork and Type I Hoods shall have welded black iron exhaust ductwork.

DIVISION 16 - ELECTRICAL

SECTION 16050 - GENERAL NOTES AND SPECIFICATION

1. General:

- a. Contractor shall provide all necessary materials, labor, tools, transportation, superintendence and related items to install a complete and fully operative interior and exterior electrical system as specified herein, shown on the drawings and elsewhere required.
- b. All outlets, fixtures and equipments shall be fully connected to proper sources of power supply and left ready for use.
- c. Provide all excavation and tamp-backfill as required to complete work. Correct any settling during guarantee period to Owner's satisfaction.

- d. Provide all necessary cutting and patching as required to complete work. Patching shall be done by mechanics skilled at their work. All openings shall be filled and patched to conform to fire regulations.
- e. Cooperate with other Trades: Make known to other trades arrangement of electrical work and material submittals shall be submitted at one time. The drawings submitted shall bear the stamp of approval of the Contractor as evidence that the drawings have been checked by the Contractor and comply with the requirements of the Contract drawings and specifications.
- f. Permits, Fees & Codes. Pay all cost for permits, fees and inspections required by authorized agencies having jurisdiction over electrical work. Electrical system shall conform to requirements of the most current National, State and Local Electric Codes, Local authorities and Utility Company.
- g. All electrical materials shall be new, listed and labeled by UL and shall conform to industry standards, particularly NEMA, NFPA, N.E.C. & others.
- h. Provide typewritten directives in panel board with clear plastic shield. Provide engraved plastic load nameplates on all disconnect switches, motor starters and control devices.
- i. Tests: Entire electrical system shall be fully tested and corrected of any short circuits, open circuits, faulty wiring and incorrect connections.
- j. Guarantee: Complete electrical system including all materials, equipment and labor shall be guaranteed for a period of one year beginning with date of acceptance of building by Owner.
- k. Each bidder shall, before submitting a proposal, visit and examine the site in accordance with Division "I" to satisfy himself as to materials and scope of the new construction and any difficulty attending the performance of the work.
- l. The submission of a proposal will be construed as evidence that such an examination has been made. Claims made subsequent to the time of submission of the proposal for labor, equipment and material required for difficulties encounter, which could have been foreseen had an examination been made, will not be recognized.
- m. Workmanship: Electrical equipment installed in neat, workmanlike manner. Unsanitary installations shall be removed or reworked at no additional expense to the Owner.

SECTION 16121 - BASIC MATERIALS AND METHODS

1. General:

- a. Section 16A applies to all works hereunder and shall include conduit, boxes, wire, wiring devices, lighting fixtures and related materials.

2. Conduit:

- a. Connections to equipment, which shall be made with three feet flexible liquid-tight conduit with liquid-tight connectors.
- b. Connections to recessed lighting fixtures shall be made with six feet of flexible conduit from a junction box. Locate junction box to prevent relocation of the light fixture.
- c. Intermediate grade conduit with threaded fittings shall be provided in slab-on-grade, outside building, below grade and in wet locations.
- d. All other conduit shall be electric metallic tubing with compression type fittings. Except exterior exposed conduit shall be rigid galvanized conduit.

3. Boxes:

- a. Concealed boxes shall be 4-inch square galvanized steel with galvanized extension rings, total depth of not less than 2-1/2 inches.
- b. Surface mounted boxes shall be pressed galvanized steel, utility type.
- c. Gangable sectional switch boxes are specifically not allowed.

4. Wire & Cable (600V and less):

- a. The wire meeting requirements below shall be suitable for secondary power and light circuits and control circuits within the limitations of these specifications.
 - b. Insulated wire No. 8 AWG and larger shall be stranded.
 - c. All wire shall be brought to the job in unbroken packages, and shall bear the date of manufacturing and shall not be older than twelve months.
 - d. Type of wire shall be as follows:
 - 1. Unless otherwise specified or indicated otherwise on drawings, all #12 and #10 wire shall be THHN and all wire #8 and larger shall be THHN-THWN type.
 - 2. Wiring adjacent to heat producing equipment shall be type AIXA.
 - 3. No wire smaller than #12 gauge shall be used, except for signal or control systems or where otherwise indicated. Wire shall be copper, 600 volt minimum rating, except for special systems.
 - 4. Unless noted otherwise, all conductors shall be soft drawn copper conforming to the latest ASTM specifications and the latest requirements of NEC. Unless otherwise noted or specified, all insulation shall be rated 900 volt.
 - 5. All wire shall be as manufactured by General Cable Co., Phelps Dodge, Anaconda, or a cable equivalent.
 - 6. All wire shall be installed in conduit and color-coded. All wire shall be 98% conductive copper, rated for maximum of 600 volts.
5. Wire Connectors: Wire connectors for sized #10 AWG and less shall be "Press-Shure", Ideal "Wrap-Cap", T&B "Stakons" or 3M "Scotchlok". Connectors for wire size #8 and larger shall be T&B or Bunnly methods using hydraulic presses.
6. Electric Tape shall be Johns-Manville "Dutch-Brand" 3M, "Scotch Branch," or Plymouth "Slipknot Brand".

7. Wall switches shall be as follows or approved equal with color as directed by Architect:

- a. 20A, SP, 125/277V, Hubbell #1221.
- b. 20A, 3W, 125/277V, Hubbell #1223.
- c. 20A, 4W, 125/277V, Hubbell #1224.
- d. 20A, SP, 125/277V, with pilot light -Hubbell #1221-PL.
- e. 20A, SP, 125/277V, weatherproof -Hubbell #1281/1795.
- f. 20A, SP, 125/277V keyed switch, Hubbell #1221-L.

8. Receptacles shall be ivory, except brown shall be installed to match finishes and shall be as follows or approved equal. Provide other receptacles as indicated on the drawings.

- a. 20A, 125V, duplex - Hubbell #5362 (I)
- b. 20A, 250V, 2W+G - Hubbell #5461
- c. 50A, 250V, 3W+G - Arrow-Hart #5700, Bryant #9630FR or P & S #5650.
- d. Ground Fault (20A/125V) -Hubbell RGF-5362. Provide spring loaded weatherproof while in use covers where indicated.
- e. Clock and Sign Hanger - Arrow-Hart #5708, Bryant #2828-GS or Hubbell.

9. Plates: Provide faceplates for all devices including wall switches, receptacles, telephone outlets and all wall outlets. Face plates shall be satin finished stainless steel in all food preparation areas, bar, restrooms, offices and commercial grade smooth unbreakable plastic in Lobby/Dining, color to match devices and walls.

10. Lighting fixtures and lamps shall be furnished by Owner through the Contractor, as scheduled on drawings and Contractor shall install all lighting fixtures. All recessed lighting fixtures shall be thermally protected as required by Code.

11. Lamps:

- a. Contractor shall furnish and install one complete set of lamps for all lighting fixtures Provide label in each fixture indicating size and type of lamp corresponding with schedule on drawing. Size shall be worked "MAXIMUM WATTAGE".
- b. Fluorescent lamps shall be standard cool White, energy efficient, manufactured by General c. Electric Watt Miser II unless noted otherwise.
- d. Incandescent lamps shall be inside frosted with 2500 hour lamp life rated 130 volts.

12. Fluorescent ballasts shall be electronic, energy efficient, manufactured by General Electric, Maxi-Miser II, Class "P" or approved equal.

13. Raceway System

- a. All wire shall be (installed) in a metal raceway and shall be concealed where possible. Where necessary to expose the wiring the raceway shall be installed as inconspicuously as possible and in straight lines with 90-degree bends, parallel with building lines. Square raceways, team smooth and make-up tight. Plug ends of raceways furring construction and sweep clean before pulling wire or cable. Support raceways from building structure members only with approved fasteners designed for the purpose.
- b. Raceway system shall be installed to maintain the maximum headroom with required supports for the load. All anchors, straps and clips shall be the type designed for the purpose installed in accordance with the manufacturers recommendations. Common supports may be used for mechanical and electrical equipment by coordinating the work with all trades.
- c. All electrical boxes shall be supported from building structural members independently of the conduit raceways, mechanical systems or suspended ceiling supports. Recessed boxes shall be flush with surrounding surface. All boxes and cabinets shall be protected during construction and shall be cleaned before pulling wire and installing devices.
- d. Size of conduit shall not be less than 3/4" and not less than required by the National Electrical Code.

- 14. Wire: Use only approved type wire-pulling lubricants for wire pulls. Splice wire only in accessible and UL approved junction boxes. Make wire joints mechanically strong before applying the connector and where tape is used, wrap each joint to the thickness of the original insulation. Clean and polish metallic surfaces before installing conductors. Apply pressure type lugs on stranded conductors connected to screw or bolt type connections.

- 15. Wiring Devices: Unless noted otherwise, receptacles shall be installed 18" above the finished floor, switches shall be 48" and clock hangers 8'-0". Receptacles noted above work counters and cabinets (AC) shall be mounted above the backsplash. Weatherproof receptacle covers shall be weatherproof while in use. Provide a bonding jumper between the box and all receptacles.

- 16. Equipment Connections: Provide all necessary motor starters (verify hood fans with supplier), disconnect switches, controls, conduit, boxes, wire, etc. and connect complete to each piece of equipment requiring electrical connections indicated on the drawings. Where equipment ratings different from that indicated, consult Owner. Consult with equipment supplier to determine rough-in requirements. Where equipment is noted as future, terminate circuit in junction box and install spring wire nuts on the ends of the conductors.

17. Lighting Fixtures:

- a. Provide all necessary mounting hardware and related items to properly install the lighting fixtures. Fixtures supported in exposed or concealed grid ceilings shall be provided with clips. Fixtures mounted in or on the ceilings shall be aligned with tiles. Lighting fixtures shall be supported from the building structural members except for exposed grid ceilings where a ceiling supporting wire shall be provided at each fixture corner. Do not use ceiling grid ceiling support wires for strapping or support.

- 18. Cleaning: All equipment including panelboards, switches, wiring devices, lighting fixtures, wall plates, etc. shall be free of corrosion, dirt, paint splatter or damage of any sort at final acceptance of the Work. Contractor shall clean, repair or replace same as instructed by the Owner before final payment.

19. Power and Lighting Panels:

- a. The service entrance equipment shall be UL listed and labeled for that application. Bussing shall be aluminum, tin-plated. Brace bussing for 65,000 A.I.C. unless noted otherwise on the contract drawings.
- b. Lighting and power panelboards shall have locking door and flush trim. Bussing shall be aluminum, with bracing to suit interrupting rating.
- c. Breakers shall be individual molded case, bolt-in style, sized as scheduled. Two pole and three pole breakers shall be common trip single pole units with handles are not acceptable.
- d. Panels shall be curb mounted as shown on plans.
- e. Contractor to verify available fault current with utility company for proper panel asymmetrical interrupting ratings. Submit this information with shop drawings and panels, along with letter from Power Company.
- f. Meter, C.T. cabinet, service conductors and conduit, transformer, etc., shall be per local utility requirements. Coordinate service installation with local utility company, providing all needed equipment and labor.

20. Lighting Controls: Furnish as noted on Electrical plans. UL listed.

21. Grounding:

- a. Equipment Grounding
 - 1. The equipment grounding system shall be such that all metallic structures, enclosures, raceways, junction boxes, outlet boxes, cabinets, machine frames, portable equipment and other conductive items associated with electrical circuits operate continuously at ground potential and provide a low impedance path for possible ground fault currents.
 - 2. Wireways, switchgear, panelboards and motor control panels shall be provided with an equipment ground bus (including lug or screw terminals) securely bonded to the enclosure. Junction boxes and other enclosures (sizes above 5'x5" shall utilize an equipment ground bus or lug as required to securely bond the equipment ground conductor to the enclosure.
 - 3. All branch circuits for power and light shall include a green insulated grounding conductor. The equipment ground conductor shall be electrically and mechanically continuous from the source of supply to the equipment to be grounded.
 - 4. Lighting fixtures shall be securely connected to the equipment ground conductor.
 - 5. Motors shall be connected to the equipment ground and conductor with a conduit grounding bushing and with a bolted solderless lug connection on the metal frame. Bolts, nuts and washers shall be bronze, cadmium plated steel, or other non-corrosive material.
 - 6. All conduit shall be connected to the equipment ground bus by means of a grounding bushing.
 - 7. E.C. shall coordinate with cash register system supplier to clarify any grounding and/or wiring requirements.
- b. System Ground
 - 1. The service neutral shall be solidly bonded to the grounding electrode at the service.

22. Installation:

- a. All grounding conductors shall be sized as per the latest edition of the National Electrical Code.
- b. Ground rods: Ground rods shall be the copper clad steel type and shall be a minimum of 8 feet in length and 3/4 inch in diameter. Ground rods shall be as manufactured by Copperweld Steel Company, or an acceptable equivalent.
- c. Grounding electrode conductors shall be stranded copper. Equipment ground wire shall be THW insulated and shall be green in color.
- d. Connections to water service shall be made with suitable ground clamp of lug connection ahead of the building meter or cutoff valve. Verify the existence and burial of 10' of copper water pipe ahead of and after the water meter. Otherwise, provide UFER ground per NEC.
- e. Connections to ground rods shall be made by a weatheral weld.
- f. Grounding cables embedded in the floor shall be made in rigid conduit.
- g. Ground rods shall be driven full length diagonally into the earth and have a one (1) foot minimum cover.
- h. All conductor connections shall be made up tight to provide continuity of metallic ground i. Ground wires not in conduit shall be supported every five (5) feet.

23. Test:
- a. The Contractor shall run a ground resistance test and if the resistance to ground is greater than 25 ohms, additional ground rods shall be installed. The test shall not be made within five (5) days after a rain.
 - b. The Contractor shall provide Owner with a copy of the test procedure and results of the test.
 - c. The ground test shall be measured in the presence of an authorized representative of the Architect. No equipment shall be operated until ground potential is verified.

24. Workmanship:

- a. All work shall be performed by workmen skilled in their trades and shall be typical of the best trade practices.

SECTION 16163 - SERVICE AND DISTRIBUTION

1. General

- a. Scope: Section applies to all works hereunder and shall include service, metering and distribution.
- b. Service: The electrical distribution is 800 amp, 120/208 volts, 3 phase, 4 wire 60 cycle. Contractor shall verify service voltage with Utility Company and provide necessary revisions and modifications required. Service enters space underground.
- c. Metering: Contractor shall provide modifications necessary metering facilities including meter socket, current transformer cabinet, conduit and other work for metering required by the Local Utility Company.

2. Materials

- a. Disconnect Switches: Shall be (heavy-duty type, NEMA HD) fused unless noted otherwise, designed to accept any rejection type fuses and operator interlocked with the door in the "off" position. Switches shall be manufactured by General Electric, Square D or Cutler-Hammer.
- b. Fuses: Shall be current limiting with 200,000 amperes interrupting capacity. UL Inc. Class RK1 and shall be dual element, time delay, Class R rejection type. One set of spare fuses shall be provided for each size and mounted in "Spare Fuse Cabinet" located at the service entrance. Fuse identification labels shall be manufactured by Busman or Shawmut.

- 3. Execution
 - a. Disconnect switches shall be installed 4'-0" above finished floor. All cabinets shall be vacuum cleaned before pulling wire

4. Installation of Equipment and Fixtures

- a. Install all equipment and fixtures forming part of the work of this section in -complete accordance with the manufacturer's recommendations and all pertinent codes and regulations. Make all final connections to bar and kitchen equipment.

5. Lamping

- a. Lamp all fixtures with lamps of the designed rating and pattern.

6. Testing

- a. General: Upon completion of this portion at the work, furnish all equipment and personnel and conduct all test required to secure approval of the installation from all agencies having jurisdiction.
- b. Criteria:
 - 1. All systems shall test free from short circuits and grounds shall be free from mechanical and electrical defects and shall show an insulation resistance between phase conductors and ground of not less than that required by the National Electrical Code.
 - 2. All systems shall show proper neutral connections.

7. Cleaning Up

- a. All equipment and exposed surfaces shall be left smooth and clean. All plate work shall be polished and the entire premises shall be cleaned of unused materials, rubbish, debris and grease spots.

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2/26/07

EXPANSION

STORE #301 - FORT SMITH, AR.
CENTRAL SHOPPING CENTER
1200 WALDRON
FORT SMITH, AR. 72903

CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

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